

AMERICAN SOCIETY OF CIVIL ENGINEERS

INSTITUTED 1852

Preliminary Notice of Applications for Admission and for Transfer

The Constitution provides that the Board of Direction shall elect or reject all applicants for *Admission* or for *Transfer*, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility.

It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a *Definite Recommendation as to the Proper Grading in Each Case* be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience.

If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board.

Communications Relating to Applicants are considered by the Board as Strictly Confidential.

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from Non-Residents of North America until the expiration of ninety (90) days from the date of this list.

LIST OF APPLICANTS.

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The fact that applicants give the names of certain members as references does not necessarily mean that such members endorse.

The numbers to the left of each record indicate the serial number of the applicant for the current year, and the district in which he resides.

The note in heavy type represents, in each case, the estimate of the Applicant of the time he has spent in Active Practice, Responsible Charge, and in Designing. These figures do not include the allowance of two years for graduation.

FOR ADMISSION

AHEARN, BERTRAM JOSEPH—Board of Water Supply, Allaben, N. Y.—(Age 35. Born Boston, Mass.)—Aug. 1905 to May 1907 Rodman and Instrumentman, Metropolitan Park 388 Comm., Boston, Mass., on construction of highways, sea-walls and bridges: June 1907 to date with Board of Water Supply, New York City, as follows: June 1907 to Feb. 1912 (3) Rodman, Instrumentman, Chf. of Party and Acting Inspector on hydrographic and real-estate surveys and line and grade and inspection work on construction of Ashokan Reservoir; March 1912 to Oct. 1914 Eng. Inspector, supervising construction of earth and concrete dams of Ashokan Reservoir (6 months) and of two reinforced concrete bridges (175-ft. span) (2½ years); Nov. 1914 to Aug. 1916 Eng. Inspector and Acting Sec. Engr. on Olive Bridge Dam Sec. of Ashokan Reservoir, including supervision over construction of earth dikes, retaining walls and concrete and brick pavements; Sept. 1916 to May 1920 Eng. Inspector on preliminary work of Schoharie Development of Catskill Water Supply, including charge of real-estate surveys, field and office study of tunnel alignment and supervision over excavation and lining of shafts; June 1920 to May 1921 Asst. Engr. in charge of Contr. 193, including modification of spillway channel and construction of various retaining walls at Ashokan Reservoir; June 1921 to July 1922 Asst. Engr. and Asst. to Sec. Engr. on Sec. 1 of Allaben Div. of Shandaken Tunnel, including driving of about 5 miles of rock tunnel; since Aug. 1922 Asst. Engr. and Sec. Engr. in charge of same section, including excavation, lining and grouting of about 5 miles of rock tunnel. (Active practice 17.7 years: Res. Ch. 10.6). Refers to S. K. Clapp, R. W. Gausmann, G. G. Honness, T. Merriman, C. J. O'Connor, L. F. Searle, J. W. Smith.

AKERS, ELTON DOUGLAS—1214 Linden Ave., Nashville, Tenn.—(Age 36. Born Jeanerette, La.)—May 1910 to May 1913 with Southern Pacific Lines, 1 year as Rodman, and 2 389 years Asst. Engr., in charge of work, construction, work trains, steam shovels, construction Lafayette (La.) Terminal, new yards, etc.: June 1913 to Dec. 1914 Res. Engr., (10) Tela R. R. Co., Tela, Spanish Honduras, on relocation and construction of 13 miles main line and 27 miles of feeders: 1915 to 1916 (1 year) private engineering, irrigation, location and general surveying: after 1916 (at different times) did general surveying, etc., at and near Jeanerette, La.: June to Sept. 1919 Farm Engr., Mercedita Sugar Co., Cabanas, Cuba, mapping and location: June to Aug. 1920 Asst. Engr., Pearl River Valley Ry., Picayune, Miss., in charge of location and construction: June to Oct. 1922 Instrumentman, and since Oct. 1922 Asst. Engr., on street construction and improvement, Nashville, Tenn. (Active practice 7.8 years: Res. Ch. 5.7). Refers to J. M. Fourmy, F. E. Freeland, A. M. Shaw, J. J. Sorenson, C. B. Wilson.

BEATTIE, WILLIAM—188 Cleveland Ave., Mineola, N. Y.—(Age 39. Born Aberdeen, Scotland.)—March 1906 to March 1908 Designer, Carnegie Steel Co., New Castle, Pa., 390 machinery foundations and steel structures: April 1908 to Jan. 1912 Designer of structures, Tennessee Coal, Iron & R. R. Co., Ensley, Ala.: Jan. to June 1912 Designer of (1) structures, Cambria Steel Co., Johnstown, Pa.: Oct. 1912 to Oct. 1914 Draftsman on design of structures with Post & McCord, Inc.: March 1915 to March 1922 Field Engr. and Asst. Supt. of Constr., Robbins-Ripley Co., design of structures, construction of piers, retaining walls and other waterfront structures: March 1922 to date Engr. on design of

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foundations, Arthur A. Johnson Corporation, Long Island City, N. Y. (Active practice 16.3 years: Res. Ch. 4: Design 13.4). Refers to R. T. Betts, J. Bourguignon, C. J. McGiffert, J. W. Ripley, A. A. Robbins.

BIRMAN, MAX—60 East 110th St., New York City—(Age 26. Born New York City.) (B. S. in C. E., 1917, and C. E., 1919, N. Y. Univ.)—June to Sept. 1917 Aeronautic
391 Draftsman, Young Airplane Co., on detail drawings and assisted on computations: Sept. 1917 to Jan. 1918 Structural Steel Draftsman, New York Central & Hudson River R. R.
(1) Co., on layout of steelwork for Grand Central Terminal Improvements: Jan. to April 1918 Field Engr., MacArthur Bros. Co., during construction of U. S. Army Base at Port Newark Terminal; Chf. Pile-Driving Inspector; also assisted in office in keeping progress records: April 1918 to Feb. 1919 Office and Field Engr., Foundation Co., New York City, during construction of U. S. Bag Loading Plant at Tullytown, Pa., in charge of taking off quantities from finished drawings for ordering purposes, also of field party staking out buildings, railroad tracks, water and sewer lines; designing miscellaneous structures and drawing up plans for same, including power house and reservoirs; finally acted as Asst. to Chf. Engr.: Feb. to Dec. 1919 Asst. to Constr. Engr., Thos. A. Edison Co. Industries, at West Orange, N. J., designing reinforced concrete and steel structures, also supervising drawing up additions and alterations to the plant, and in charge of property surveying: Dec. 1919 to date Designer, White Constr. Co., New York City, Designer and Checker and in charge of drawing up details and construction plans for reinforced concrete industrial buildings and other structures. (Active practice 5.7 years: Res. Ch. 4.9: Design 4.1). Refers to R. L. Bertin, A. Hinrichs, T. Holst-Grubbe, F. Leiser, O. S. Schlich, C. H. Snow.

BRECKINRIDGE, GEORGE CASTLEMAN—Shelburn, Ind.—(Age 38. Born Huntsville, Mo.)—Student, Missouri School of Mines (1903–1904 and part of 1st Semester, 1905–1906)
392 and Univ. of Missouri (2d Semester, 1904–1905, and finished Junior year May 1919): July 1902 to Aug. 1903 assisting with surveying and Foreman's work, Illinois-Jalisco
(9) Copper Min. Co., Ayutla, Jalisco, Mexico: Dec. 1905–Jan. 1906 Rodman and Chainman, City Engr.'s office, Joplin, Mo.: Feb. to Nov. 1906 private practice, surveying and mapping, chiefly coal mine work, Pittsburgh, Kans.: Nov. 1906 to May 1907 Mine Foreman, Mexican Coal & Coke Co., Las Esperanzas, Coah., Mexico: June 1907 to July 1908 Engr. operating two coal mines, Compania Carbonifera De Monterey, S. A., El Menor, Coah., Mexico, took care of two lead and zinc mines: Aug. 1908 to Aug. 1911 Engr., Huntsville, Mo., chiefly for Northern Central Coal Co., Huntsville and Higbee, Mo.: Sept. 1911 to July 1912 Asst. Engr., Mfr.'s Ry., St. Louis, Mo., office and field, construction yard tracks, roundhouse and shops: Aug. 1912 to June 1914 Instrumentman, Chicago, Burlington & Quincy R. R., St. Louis, field and office, 6 months on double track construction: June to Dec. 1914 with Southern Ry. Co., until Oct. 1914 as Inspector on construction, setting grades and lines, M. of W. Dept., St. Louis, then Timekeeper and setting grades and lines, roundhouse and shop construction, Constr. Dept., East St. Louis: Jan. to July 1915 Asst. Engr. in charge of valuation party, Wabash R. R., St. Louis: Aug. to Sept. 1915 Res. Engr. on bridge construction, field, Illinois State Highway Comm.: Oct. 1915 to May 1917 Asst. City Engr., Columbia, Mo., and at Missouri Univ.: May 1917 to March 1918 Instrumentman, field and office work, track elevation and bridge construction, M. P. Ry., St. Louis: March 1918 to July 1919 Supt. and Engr. in Chg., with Bell & Zoller Min. Co., at Zeigler, Ill., coal mine plant yards, bridges, power plant, tipple and rescreening plant construction and equipping also sinking two shafts: July 1919 to date Supt., also in charge of engineering work, reconstructing and equipping old coal mine plant, Big Muddy Co. (operated by Peabody Coal Co., at Shelburn, Ind.); few months (while mine was shut down) Supt., No. 8 mine, Peabody Coal Co., Kincaid, Ill. (Active practice 17.3 years: Res. Ch. 12.8: Design 3.) Refers to O. Bates, W. L. Breckinridge, E. C. Finley, A. L. Hyde, E. J. McCaustland, W. S. Williams.

BRYANT, CARLETON ELLIOTT, Jr.—426 South Columbus Ave., Mt. Vernon, N. Y.—Age 21. Born Toronto, Canada.) (C. E., Cornell Univ., 1922.)—July 1922 to Feb. 1923
393 Chainman, New York Central R. R., also drafting and office work: Feb. 1923 to date Engr., Gen. Bldg. Materials Dept., Johns-Manville Co., Inc., New York City, designing
(1) steel framework for small knockdown buildings, such as garages, pump houses, etc. (Active practice 0.7 year: Design 0.1). Refers to F. A. Barnes, H. N. Ogden, J. E. Perry, C. D. Searle, W. F. Stevenson.

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BURKHALTER, RALPH MARKS—25 East 193d St., New York City—(Age 38. Born Maquon, Ill.) (B. S. in Civ. Eng., Univ. of Ill., 1907.)—June 1905 to March 1906 394 Transitman, Kentucky Valley R. R.: March to Sept. 1906 Transitman, Chicago, Milwaukee & St. Paul Ry.: June 1907 to March 1909 Inspector, Pennsylvania Tunnel & (1) Terminal Ry. Co., inspected detail of construction of subaqueous tunnel under East River; at various times on grouting, iron lining erection and conduit laying: March 1909 to Feb. 1911 Engr. and Asst. Supt., George W. Jackson, Inc., first as Office Engr. and Estimator, then Timber Foreman and Asst. Supt. on construction of Washington St. Tunnel under Chicago River; also made time and organization studies, Yonkers Pressure Tunnel, Catskill Aqueduct: Feb. to Sept. 1911 Office Engr., C. M. Neeld Constr. Co., estimating costs for bidding, Foreman on highway bridge construction: Sept. 1911 to Oct. 1912 Supt., George W. Jackson, Inc., supervised excavation and concreting of approach tunnels and bell mouth of Bryn Mawr siphon chamber, Yonkers Pressure Tunnel, Catskill Aqueduct: Oct. 1912 to Aug. 1914 Asst. Supt., Alabama Power Co., organized forces, constructed power house (cost \$700 000), Supt. on clearing 1700 acres of timber land, organized and completed this work: 1914 to March 1918 Asst. Engr. and Res. Engr., Public Service Comm., New York, detail supervision of tunnel construction under East River as Asst. to Res. Engr., Dual Subway System (1 1/2 years); Res. Engr., Old Slip Shaft of Clark St. Tunnel, general supervision of alignment and construction, tunnel driving and lining (2 1/4 years): March 1918 to June 1919 Field Engr., Louis L. Brown Co., on construction of concrete barges for U. S. Navy, laying out work, purchasing supplies and general engineering supervision: June 1919 to June 1921 Office Engr., Dwight P. Robinson & Co., Inc., on design and construction of industrial plants, supervised drafting room design, wrote specifications and agreements covering subcontracts and materials, estimated costs of proposed construction from sketches: June 1921 to Sept. 1922 Head of company in contracting building construction, organized and constructed work costing \$100 000, a church, four dwellings, garage, store building (concrete, brick, steel and timber): Sept. 1922 to date Asst. Engr., New York & New Jersey Bridge and Tunnel Comm., supervising subaqueous tunnel construction. (Active practice 17 years: Res. Ch. 5). Refers to J. H. Brace, E. A. Clark, M. H. Freeman, C. M. Holland, I. W. McConnell, J. B. Snow, E. A. Yates.

COAKLEY, CLYDE EDWARDS—Box 711, Stanford University, Cal.—(Age 22. Born Weiser, Idaho.) (A. B. in C. E., Leland Stanford, Jr., Univ., 1923.)—June to Aug. 1920 395 Valuator and Draftsman, M. of W. Dept., Portland (Ore.) Div., Southern Pacific Co.: Sept. 1922 to March 1923 Student Asst., Civ. Eng. Dept., Stanford Univ., Examination (13) Corrector: March 1923 to date Engr., Standard Oil Co. of California, San Francisco, Cal., engineering design in Structural Dept. of Eng. Dept. (Active practice 0.6 year: Res. Ch. 0.5). Refers to J. C. L. Fish, C. D. Marx, C. Moser, K. C. Thomas, C. B. Wing.

COOK, WILLIAM HENRY—217 Wick Ave., Youngstown, Ohio—(Age 36. Born Madison, N. J.) (M. E., Stevens Inst. Tech., 1907.)—1913 to 1916 (3 1/2 years) Vice-Pres., 396 Bankers Bldg. Bureau, New York City, design and construction of bank buildings: 1916 to 1919 (2 years) with Andrew J. Robinson Co., Gen. Contrs., New York City: 1917 to (9) 1919 also Chf. Engr., The A. H. Andrews Co., Architectural and Eng. Contrs., Chicago, Ill., in charge of all activities except sales: 1919 to 1923 (4 years) member of firm, The Owsley Co., Archts. and Engrs., Youngstown and Cleveland, Ohio, and in final charge of all activities in the absence of Charles F. Owsley: 1923 Receiver for Parish Bros., Gen. Contrs., having \$1 500 000 worth of work under construction. (Active practice 10 years: Res. Ch. 10: Design 10). Refers to C. I. Auten, E. Godfrey, E. C. Lawrence, D. W. McNaugher, N. H. Sturdy.

CORWIN, THORNTON JOHNSON, Jr.—1982 Broadway, San Francisco, Cal.—(Age 24. Born Alameda, Cal.) (B. S., Univ. of Cal., 1922.)—May 1922–March 1923 Asst. Hydr. 397 Engr., Div. of Water Rights, State of California, on collection of engineering data. (Active practice 0.9 year). Refers to R. E. Davis, C. Derleth, Jr., B. A. Etcheverry, (13) E. Hyatt, Jr., G. Zander.

CRANDALL, CHARLES LEE—412 East 170th St., New York City—(Age 34. Born Schuylerville, N. Y.) (B. S. in C. E., Rutgers Coll., 1915.)—March 1916 to July 1917 Jun. 398 Asst., and Aug. 1917 to Oct. 1919 Jun. Engr., Public Service Comm. for 1st Dist., New York City, on tunnel alignment and construction; from Aug. 1917 to Jan. 1918 (1) in charge of tunnel construction: Oct. 1919 to date Asst. Engr., New York & New Jersey

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Bridge & Tunnel Comms., in charge in field of triangulation and preliminary topographical surveys; at present in charge of tunnel alignment. (**Active practice 7 years; Res. Ch. 4.9**). Refers to M. H. Freeman, C. S. Gleim, C. M. Holland, J. H. Serra, J. B. Snow.

CUENOT, WILLENOR ALPHONSE—821 Pershing Ave., Elizabeth, N. J.—(Age 37. Born Lachine, Canada.)—July 1904 to June 1912 Draftsman, Pennsylvania Steel Co. (now 399 Bethlehem Steel Co.), Steelton, Pa., drafting and checking on steel buildings and bridges, principally railroad bridges: July 1912 to April 1917 Asst. Engr. with Gustav Lindenthal, Cons. Engr., New York City, in charge of general and detail drawings for Hell Gate Arch Bridge and Approaches over East River, N. Y., and C. & O. N. Ry. Bridge over Ohio River at Sciotoville, Ohio, and other railroad bridges: May 1917 to April 1920 Detail Designer and Checker, Michigan Central R. R. Co., at Detroit, Mich., in charge of detail design drawings for Niagara River Arch Bridge for Michigan Central R. R. at Niagara Falls, N. Y.: May 1920 to Jan. 1921 Designer with Esselstyn & Murphy, Cons. Engrs., Detroit, on design in connection with Belle Isle Bridge over American Channel of Detroit River: Feb. 1921 to date Chf. Draftsman with Gustav Lindenthal, Cons. Engr., New York, in charge of drawings for proposed Hudson River Bridge at New York and for other projects. (**Active practice 18.4 years; Res. Ch. 6.8; Design 10.5**). Refers to O. H. Ammann, T. Earle, G. Lindenthal, C. H. Mercer, D. B. Steinman, I. O. Thorley.

DANNER, CARL FREDERICK—449 Mt. Prospect Ave., Newark, N. J.—(Age 29. Born East Aurora, N. Y.) (B. E. in E. E., Union Coll., Schenectady, N. Y., 1916.)—June 400 1911 to Sept. 1912 Galvanometer man, New York Telephone Co., Buffalo, N. Y., in charge of Cable Testing and Repair Gang; 6 months associated with engineers making capacity unbalance tests on Quad Cable: vacations (June to Sept.) of years 1913–1915 Eng. Asst., same Company, making studies on electrolysis conditions on underground cables, inspecting aerial and underground cable construction and making minor surveys: June 1916 to July 1917 Dist. Engr., same Company, laying out underground and aerial cable systems, construction of subways and telephone engineering; supervised inventorying of Western New York properties of Federal Telephone Co., developed uniform system of appraisal, and assisted in developing fundamental plans for consolidation of its plant with that of New York Telephone Co.: July 1917 to Sept. 1919 1st Lieut. (6 months) and Capt. (1½ years), Signal Corps, U. S. Army; Oct. 1917–March 1919 Commanding Officer of Signal Corps Co., 306th Field Signal Battalion, 81st Div., in charge of technical instruction of battalion (3 months), constructing telephone lines for Combat Division in France (9 months), Asst. Div. Signal Officer, 81st Div. (3 months), in charge of technical communications and developing maps, codes, etc.; March 1919 with Aero-Squadron, instruction as Observer; April to Sept. 1919 with Inter-Allied Armistice Comm., in Germany, Poland, Austria and Italy, in charge of trains carrying Allied troops: Sept. 1919 to date with Hay Foundry & Iron Works, Newark, N. J., purchasing and inspecting structural steel, also making cost studies on fabrication of structural steel; 1 year in charge of classifying and routing of work through shops, settlement of claims, and reports on proposed purchases of plant equipment. (**Active practice 8.7 years; Res. Ch. 3.8**). Refers to J. L. Averill, J. P. Churchill, M. R. Everett, J. W. Hamilton, L. H. Miller, G. E. J. Pistor, M. N. Shoemaker.

DEWEY, ROBERT MANSON—44 Alban St., Dorchester Center 24, Mass.—(Age 22. Born Dorchester Center, Mass.) (B. S., Dartmouth Coll., 1922; C. E., Thayer School of Civ. 401 Eng., 1923.)—July–Aug. 1918 Fitter's Helper, Fore River Shipyards, Quincy, Mass.: May to Sept. 1922 Transltman, New Hampshire State Highway, Concord, N. H., in field (2) giving line and grade, and in office drawing plans, profiles and cross-sections. (**Active practice 0.5 year**). Refers to P. S. Dow, F. E. Everett, R. Fletcher, C. A. Holden, R. R. Marsden.

DOHERTY, PHILIP JAMES—Boston & Maine R. R., Greenfield, Mass.—(Age 33. Born Boston, Mass.)—May 1909 to Dec. 1912 with Boston & Maine R. R., until Aug. 1909 as 402 Chainman, then Rodman, and after Nov. 1910 Engr. Inspector, Constr. and M. of W. Depts., Acting Head of party on surveys, layouts, inspection of construction materials (2) and incorporation of these materials into complete structures, such as drawbridges, buildings, etc.: Dec. 1912 to Nov. 1914 Contr.'s Supt., Fletcher & Lahey Co., Contrs., Boston, Mass., in full charge of field organization, estimating new projects, and supervision of

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heavy rock excavations, pile-driving, coffer dams, and bridge and building foundations: Nov. 1914 to Sept. 1915 ill: Sept. 1915 to date with B. & M. R. R. as follows: Sept. 1915 to July 1916 Chainman and Rodman, Constr. Dept., at times acting as Inspector or head of party; July 1916 to June 1917 Engr. Inspector, charge of inspectors, Constr. Dept., full charge of inspection of materials and construction of new East Deerfield (Mass.) engine house facilities and yard extension, including power plant installation, etc.; June 1917 to Aug. 1918 Head of field parties, Constr. Dept., in charge of track, bridge and building layouts, surveys, office computations; since Aug. 1918 Res. Engr. of Constr., in full charge of construction work in territory supervised; on preliminary surveys, layouts, estimates, minor design, inspection, drafting, etc., responsible for approval of foundations, building materials, etc. (**Active practice 13 years: Res. Ch. 10.7**). Refers to H. C. Booz, A. B. Corthell, P. Jones, F. C. Shepherd, C. W. S. Willson.

DOREMUS, HAL CHELLIS—College Station, Tex.—(Age 23. Born Nelgh, Nebr.) (B. S. in C. E., Univ. of Nebr., 1921.)—June to Sept. 1919 Rodman, and May to Sept. 1920 403 Instrumentman, Nebraska State Highway Dept.: June to Aug. 1921 Timekeeper, Woods Constr. Co., Lincoln, Nebr., on bridge protection: Aug. 1921 with State Testing Dept.: (15) Sept.—Nov. 1921 Principal of high school, Thayer, Nebr., teaching science and mathematics: Dec. 1921 to date Instructor, C. E. Dept., Texas Agri. and Mech. Coll.: June to Sept. 1922 Instrumentman, Freeport Sulphur Co., bridges and pile trestles. (**Active practice 1.8 years**). Refers to B. Bird, R. M. Green, R. O. Green, C. E. Mickey, J. C. Nagle, J. J. Richey, W. L. Stanton.

DORSEY, GUY PALMER—Deputy County Engr., Omaha, Nebr.—(Age 43. Born Terre Haute, Ind.)—Feb. 1899 to Jan. 1900 Stakeman, Chainman, Asst. Topographer and Rodman, 404 Burlington System: Sept. 1902 to Sept. 1903 Rodman and Instrumentman, Southern Pacific R. R.: Sept. 1903 to Jan. 1904 Draftsman and Estimator, Bear River Canal Co., (14) Collinston, Utah, flumes and drops, canal excavation, etc.: Feb. to Aug. 1904 Asst. Engr., construction, S. P. R. R., in charge of party, yard tracks and buildings, bank widening, ballasting, pipe-lines for water supply, etc.: Sept. 1904 to Jan. 1905 Clerk and Asst. to Sept. of rock-crushing plant, S. P. R. R., at Deetz, Cal., on reports, statistics, cost data, quarry work: Feb. 1905 to April 1907 Asst. Engr., City of Lincoln, Nebr., on construction of sewers, sidewalks, street grading and general city work, except paving: April 1907 to Feb. 1908 Draftsman, Union Pacific R. R., Omaha, construction of Lane Cut-off and second track through Nebraska, bridge substructure, drainage, computations, etc.: Feb. to Oct. 1908 Engr., Towl Eng. Co., Omaha, surveys of city additions, topography, earthwork calculations, etc.; loaned to J. L. Darnell of Kansas City to install suction main system for water supply, Atlantic, Iowa; also to Andrew Rosewater for survey of water-works system, Grand Island, Nebr.: Oct. 1908 to July 1912 Asst. Engr., City of Omaha, Dept. of Sidewalks, grading, surveys for street grades, Legal Dept., conduits, boulevards, etc., making up annual statistics, various grade layouts, etc.: July to Oct. 1912 Asst. Engr., U. P. R. R., Omaha, 135 mles of 400-ft. right-of-way survey, main line in Nebraska, location of improvements: Oct. 1912 to Nov. 1917 Field and Office Engr., and since then Deputy County Surveyor and Highway Commr., Douglas County, Nebr., on location and construction of highways, bridges, culverts and drainage betterments, land surveys; has planned and had charge of construction of 45 miles of brick, concrete and bituminous pavement in the county. (**Active practice 20.5 years: Res. Ch. 16.6: Design 11.6**). Refers to J. B. Bertrand, J. A. Bruce, G. L. Campen, F. T. Darrow, W. Grant, H. V. Knouse, W. E. Standeven.

DURHAM, HARRY EUGENE—342 E. Hall, Rice Inst., Houston, Tex.—(Age 24. Born near Atlanta, Ga.)—June 1918 to Sept. 1920 Draftsman in Div. Engr's office: June to Sept. 405 1921 Instrumentman, and June to Sept. 1922 Transitman, Kansas City Southern Ry.: at present student, School of Eng., Rice Inst., Houston, Tex. (**Active practice 2.7 years**). (15) Refers to W. T. Lyle, W. H. Mead, E. F. Petersen, T. F. Quinn, L. B. Ryon, Jr.

EASTHAM, ROBERT FRANCIS—1341 Madison St., N. W., Washington, D. C.—(Age 40. Born Flint Hill, Va.) (C. E. course, Va. Mil. Inst., 1902.)—June 1902 to March 1903 Instru- 406 mentman, Baltimore & Ohio R. R.: March 1903 to Jan. 1904 Transitman, Illinois Central R. R.; Res. Engr. for reconstruction of railroad yards, Centralia, Ill.: Jan. 1904 to Oct. (3) 1906 mine surveying and design, Whitebreast Fuel Co. of Illinois: Oct. 1906 to Jan. 1909 Civ. Engr., Arnold Co., Chicago, Ill., in charge of construction of Elgin & Belvidere Elec. R. R. Co., also of Grand Trunk R. R. shops at Battle Creek, Mich.: Jan. 1909

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to Jan. 1910 contracting, Ottawa, Canada, reinforced concrete construction and paving: Jan. 1910 to Oct. 1914 Res. and Div. Engr., Virginia State Highway Comm.: Oct. 1914 to date Sr. Highway Engr., Bureau of Public Roads, U. S. Dept. of Agriculture; 4 years with Div. of Economics Investigations and Research Work, and remainder of time in charge of Maryland and Delaware Federal aid construction: since 1910 has had charge of design and construction of highways, including selection of grades, alignment, and selection of types for single roads; also laying out of county and state systems with designs for each road. (Active practice 20.7 years: Res. Ch. 12.7: Design 8). Refers to J. C. Carpenter, B. F. Heidel, J. N. Mackall, G. T. Macnab, V. M. Peirce, C. M. Upham.

- ECCLES, ALFRED HARVEY—76 Hoyt Ave., Astoria, N. Y.—(Age 34. Born Astoria, N. Y.)—Completed day course in machine construction, School of Science and Technology 407 (1907–1908), and night course in architectural drawing, Dept. of Fine Arts (1912 to 1915), Pratt Inst.: Sept. 1909 to Sept. 1912 Architectural Draftsman, New York Architectural Terra Cotta Co., Long Island City: Sept. 1912 to Sept. 1915 Estimator, Bureau of Bldgs., Borough of Queens, New York City, computing quantities of materials: Sept. 1915 to date Engr.-Inspector, Eng. Div., Bureau of Bldgs., Borough of Manhattan (Sept. 1915 to March 1916), and Borough of Queens (since March 1916), New York City; Examining Engr. (examination of plans for buildings and structures to be erected within the city as to compliance with laws relating to construction and arrangement). (Active practice 13.5 years). Refers to H. G. Balcom, E. C. Epple, O. Lowinson, H. I. Oser, G. E. Strehan, W. Wilson.

ELKAN, STANLEY ABE—300 Katherine Court, Macon, Ga.—(Age 21. Born Nashville, 408 Tenn.) (C. E., Cornell Univ., 1923.)—Refers to F. A. Barnes, H. N. Ogden, J. E. Perry, (10) F. J. Seery, L. C. Urquhart.

- ELLSWORTH, SAMUEL MORRISON—117 Adams St., Braintree, Mass.—(Age 28. Born Braintree, Mass.) (S. B., Mass. Inst. Tech., 1916.)—July to Aug. 1916 Rodman with 409 Frank A. Barbour, Cons. Engr., Boston, Mass.: Aug. 1916 to Sept. 1917 Transitman, Massachusetts Dept. of Public Health, Boston, on Neponset River Reclamation Project, later in charge of field work connected with investigation of drainage of Lower Neponset River lowlands: Sept. 1917 to Jan. 1918 Chf. San. Inspector, American Red Cross and U. S. P. H. S., in charge of inspection work for Elizabeth City County, Va., part of extracantment zone of Camp Stuart; included epidemiological work and design of improvements for sewage collection and disposal: Jan. 1918 to Aug. 1919 Private to 2d Lieut., U. S. Army, after July 1918 on engineering work, in charge of operation of mobile water purification plant; later Area Water Supply Inspector at LeMans, Am. Emb. Center: Sept. to Nov. 1919 Inspector with Metcalf & Eddy, Boston, on construction of sewers at Lynn, Mass., in charge of lines and grades: Nov. 1919 to April 1921 Asst. Engr. with Morris Knowles, Inc., Pittsburgh, Pa., on water supply investigations, filtration plant supervision, town planning and later in charge of water and sewage laboratory: April 1921 to Feb. 1922 Res. Engr., Massachusetts Dept. of Public Works, Div. of Highways, on construction of concrete highways; Res. Engr. on section of Newburyport Turnpike: Feb. 1922 to date Asst. Engr. with Weston & Sampson, Boston, in charge of investigation for N. E. Oil Refining Co. in connection with elimination of oil nuisances; in charge of water supply investigations for North Jersey Dist. Water Supply Comm. and City of Newark. (Active practice 5.5 years: Res. Ch. 3.8: Design 1.2). Refers to X. H. Goodnough, M. Knowles, M. G. Mansfield, R. S. Weston, G. C. Whipple.

- FISCHER, ALBERT FRIEDERICH—P. O. Box 358, Iowa City, Iowa—(Age 36. Born Oxford, Iowa.) (B. E., Coll. of Applied Sci., State Univ. of Iowa, 1911; C. E., Univ. of 410 Iowa, 1915.)—June 1911 to March 1912 Draftsman in office, Delaware, Lackawanna & Western R. R., Buffalo, N. Y., also acted as Instrumentman in field: March 1912 to (7) March 1914 Asst. City Engr., Clinton, Iowa, made plans for sewer, paving, etc., in office, and acted as Asst. Engr. on construction: March 1914 to Jan. 1916 County Highway Engr., Jefferson County, Iowa, in charge of highway bridge and culvert work, and highway construction and maintenance: Jan. 1916 to date County Highway Engr., Johnson County, Iowa, in charge of plans, surveys, construction and maintenance of county, state and federal aid road and bridge work. (Active practice 11.7 years: Res. Ch. 9: Design 9). Refers to C. P. Chase, C. H. Currie, J. H. Dunlap, A. Marston, W. G. Raymond, W. H. Root, J. G. Thorne, F. R. White.

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FORSYTH, JOSEPH ROBERT—428 Thirty-seventh St., Brooklyn, N. Y.—(Age 35. Born Hoboken, N. J.) (B. Sc., Rutgers Coll., 1911.)—1911 to 1912 (1½ years) Asst. to 411 Chf. of Water Dept., Camden, N. J., surveying, charge of repairs and location of new mains; kept data on pumping station, etc.: 1913 (9 months) in office of Supt., Hull (1) Dept., New York Ship Building Co., Camden, reporting progress of work, making sketches, suggesting alterations, etc.: 1913 to 1915 (2¼ years) Structural Engr., Walsh's Holyoke (Mass.) Steam Boiler Works, designing, detailing and estimating plate and structural steelwork: 1915 to 1917 (over 1½ years) Asst. Town Engr., Dover, N. J.; had charge of field work relating to street layouts, etc.; developing property: 1917 to 1918 (1½ years) 1st Lieut. and Capt., U. S. Army: 1919 to 1921 (2½ years) Designer, Elec. Refrigerating Co., Inc., Brooklyn, N. Y., on designing and developing small air-cooled, electrically-driven refrigerating machine for the home: 1912 to 1922 (at various times) on surveying, etc.: 1922 to date (10 months) Asst. Engr. in office of Nicholas S. Hill, Jr., Cons. Engr., New York City; at present Res. Engr., East Orange Water-Works. (Active practice 10.5 years: Res. Ch. 3.2: Design 2). Refers to J. N. Brooks, H. M. Herbert, N. S. Hill, Jr., H. P. R. Jacobsen, S. K. Knox, A. T. Ricketts.

FOSS, FREDERIC DEARBORN—342 Madison Ave., Room 1924, New York City—(Age 28. Born Haverhill, Mass.) (S. B., Mass. Inst. Tech., 1917)—June to Oct. 1917 Concrete 412 Draftsman, Stone & Webster, Boston: Oct. 1917 to April 1922 with Fred. T. Ley & Co., Inc., New York City, until May 1919 as Concrete Designer on Hampden Power Station, (1) Chicopee Falls, Mass., Merchants Shipbuilding Plant, Bristol, Pa., Virginia Shipbuilding Plant, Alexandria, Va., Marlin-Rockwell Plant, Port Penn, Del., Staten Island Ship Plant, and Naugatuck (Conn.) Chemical Plant; from May 1919 to Aug. 1921 Chf. Structural Engr. in charge of design of Bldg. No. 8, Eastman Kodak Co., and Bastian Bros. Plant, Rochester, N. Y.; H. W. Cotton Bldg., Brooklyn, N. Y.; Sloane Estates Bldg. on 39th St., and foundation work, Fisk & Liggett Bldgs., New York City; after Aug. 1921 Constr. Supt., Sloane Bldg., East 64th St., New York City: April 1922 to date Gen. Constr. Supt., James A. Mears, Inc., New York City, in charge of all construction work (over \$2 000 000 annually). (Active practice 5.8 years: Res. Ch. 3.9: Design 1.6). Refers to J. A. Dormer, A. L. Kehoe, S. W. Moore, F. H. Nygren, C. M. Spofford, M. R. Sumner.

FRENCH, HENRY LENOX—Sumner, Miss.—(Age 30. Born Hermanville, Miss.) (B. S. in Civ. Eng., Miss. Agri. and Mech. Coll., 1914.)—June 1914 to May 1915 Instrumentman, 413 and Feb. to Sept. 1916 Chf. of Party and Asst. Engr. on drainage surveys and design of drainage projects, with S. W. McClesky, Memphis, Tenn.: May 1915 to Feb. 1916 (10) Surveyor, Mississippi River Comm., Vicksburg, Miss., 4 months on surveys and 5 months Asst. on construction: Sept. 1916 to March 1917 Asst. Engr. on design of streets and pavements, bridges, sewers and waterworks, and March to Sept. 1917 Res. Engr. on highway bridge construction, with H. G. Ferree, Memphis, Tenn.: Sept. 1917 to Jan. 1919 with U. S. Air Service, 2d Officers' Training Camp, 5 months training troops in United States, in command of Company, and 9 months in responsible charge of construction in England; after Nov. 1917 Commissioned Officer: Jan. 1919 to date in private practice engaged as follows: Chf. Engr., Upper Quiver River Drainage Dist., preliminary report, design and detail plans (\$400 000 project), at present supervising construction; Engr., Yazoo Drainage Dist., preliminary report and tentative design of reclamation project, including drainage, levee, diversion and pumping system (estimated cost \$465 000) (not constructed); Chf. Engr., Ascalmore Drainage Dist. No. 1, preliminary report and tentative design and at present supervising detail plans (estimated cost \$75 000); Chf. Engr., Tallahatchie County, design and supervision of construction of highways and bridges (work completed, cost \$500 000); at present supervising plans for highway and \$25 000 worth of bridges designed and under construction (estimated cost \$350 000); Chf. Engr., Town of Sumner, design and supervision of construction, pavements, curb and gutters and storm sewers (work completed, cost \$50 000). (Active practice 8.7 years: Res. Ch. 3.3: Design 2.9). Refers to W. W. Boone, A. L. Dabney, R. W. Gay, L. W. Mashburn, H. S. Stansel.

FURBER, PIERCE POWERS—2058 Carroll Ave., St. Paul, Minn.—(Age 37. Born St. Louis, Mo.) (C. E., Univ. of Minn., 1908.)—Aug. 1908 to Feb. 1909 Draftsman, Minneapolis 414 (Minn.) Steel & Machinery Co., detailing steel structures: Feb. 1909 to April 1912 Asst. Engr. with C. A. P. Turner, Cons. Engr., Minneapolis, designing, detailing, estimating (7) steel and reinforced concrete buildings and bridges: April 1912 to Dec. 1916 Dist. Engr.

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at Chicago, Ill., for C. A. P. Turner Co. of Minneapolis (reinforcing steel and exploitation of mushroom system of concrete construction), in complete charge of designing, estimating and selling: Dec. 1916 to Feb. 1918 Senior Engr., Structural Div., Stone & Webster, Boston, in charge of structural designs and specifications for various projects, such as Westinghouse Lamp Co. factory, Trenton, N. J., Rock Island Arsenal, Field & Siegel Bldg., Rock Island, Ill.: Feb. 1918 to Jan. 1919 Asst. to Supt. of Material, American International Shipbuilding Corporation, Hog Island, Pa.: April to Aug. 1919 Designer and Estimator, and Nov. 1919 to Feb. 1920 Representative at Dallas, Tex., for Paul J. Kalman Co., St. Paul, Minn., on reinforcing steel: Aug. to Oct. 1919 Engr., A. W. Kerr & Co., Archts., Virginia, Minn., designing high school building: March 1920 to May 1922 Engr. for Butler Bros., Contrs., St. Paul, designing and estimating building construction, mining structures, concrete pavements: June-Aug. 1922 Engr., St. Paul Office, Corrugated Bar Co. of Buffalo, N. Y., designing and estimating reinforcing steel, etc.: Sept. 1922 to date Engr., St. Paul, Minn., designed new office and factory building for Louis F. Dow Co. of St. Paul, all architectural and structural drawings and specifications. (Active practice 14.1 years: Res. Ch. 8.8: Design 5.2). Refers to G. S. Bergendahl, F. O. Dufour, J. E. Hall, I. W. McConnell, E. McCullough, C. A. P. Turner.

GELINEAU, VICTOR—1 Exchange Pl., Jersey City, N. J.—(Age 37. Born Lowell, Mass.) (LL.B., N. Y. Univ., 1922.)—Sept. 1905 to June 1906 student, Coll. of Civ. Eng., Cornell Univ.: Jan. 1907 to April 1910 with Frank Middleton, Civ. Engr. and Surveyor, Atlantic City, N. J., until Jan. 1908 as Draftsman, Transitman and Computer, engineering, surveying, municipal work; then First Asst. having charge of all field work and design for municipal work of Hammondtown, Egg Harbor City, South Atlantic City, including drainage systems, roads, pavements, bulkheads, bridges and ocean boardwalk; reclamation work by dredging and filling, water power and water supply surveys, plans and estimates for Jos. Wharton and Mays Landing Water Power Co. interests, surveys and plans for channel and bridge connections between Atlantic City and Brigantine Beach, surveys and sub-division on large tracts for D. B. Frazier Co. and Richland Development Co.: April 1910 to Sept. 1911 Asst. Chf. Engr., Tangier Development Co., New York City and Long Island, in charge of field work and design, comprehending sub-division, road location and construction, surveys and design for bridges, bulkheads and boardwalks: Jan. 1912 to Nov. 1915 Draftsman, Computer and Field Asst., State of New Jersey, Dept. of Inland Waterways, and Board of Commerce and Navigation, construction New Jersey Inland Waterway and Barnegat Bay-Manasquan River Canal: Nov. 1915 to Jan. 1916 1st Asst., surveys for proposed New Jersey Ship Canal from Delaware River to Raritan Bay: Jan. 1916 to May 1918 in charge of surveys, investigations and valuations, water front structures in New Jersey for Board of Commerce and Navigation: May to Nov. 1918 Acting Director, and Nov. 1918 to date Director and Chf. Engr., New Jersey State Board of Commerce and Navigation. (Active practice 16 years: Res. Ch. 7.5: Design 8.5). Refers to W. H. Collisson, Jr., J. W. Hackney, J. Logan, C. A. Mead, H. J. Sherman, C. W. Staniford, J. L. Vogel.

GILMORE, ELLIOTT EUGENE—911 Omaha National Bank Bldg., Omaha, Nebr.—(Age 32. Born Omaha, Nebr.) (B. S. in Civ. Eng., Worcester Pol. Inst., 1914.)—Oct. 1912 to 416 Aug. 1913 Rodman and Transitman with Roy N. Towl, Engr., Omaha: July 1914 to Dec. 1915 Surveyman, U. S. Reclamation Service at Babb, Mont., and Olathe, Colo., (14) irrigation work, including designing, laying out of canal bridges, canal inlets and outlets, drops, etc., work in Colorado being drainage work: Jan. 1916 to March 1917 Contr. building houses, Omaha: March 1917 to date Supt., Engr. and Estimator, Peter Kiewit's Sons, Gen. Contrs., Omaha. (Active practice 9.4 years: Res. Ch. 5.7: Design 1.2). Refers to A. C. Arend, H. D. Jolley, J. Latenser, Jr., C. L. Meyer, R. N. Towl.

GRAFF, CHARLES JOHN—New Canaan, Conn.—(Age 37. Born New York City.)—Sept. 1903 to 1905 (2 years) student, Civ. Eng. course, Columbia Univ.: summers 1902 and 417 1903 Draftsman, J. B. & J. M. Cornell Iron Works, New York City, structural steel detailing and tracing: 1905 to 1922 with New York Central R. R. Co., New York (1) City, as follows: 1905 to 1909 (4 years) Draftsman, plotting surveys and cross-sections, making and tracing track maps, detailing masonry and steelwork for bridges, buildings, etc.; 1910 to 1920 (10½ years) Asst. Engr. having supervision of squad of designers and detailers on track layouts, terminal layouts, masonry, steel and reinforced concrete structures; 1920 to 1921 (1½ years) Asst. Designing Engr., in responsible charge of designing office, design, specifications, letting contracts, super-

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vising field work for masonry, steel and reinforced concrete bridges, buildings and miscellaneous structures; 1922 (1 year) Asst. Engr. in responsible charge of special engineering, covering standardization of structure design and of maintenance-of-way structures and equipment, preparation of specifications, research work: 1908 to 1920 (at various times, total about 2 years) also on private work for various individuals, surveying and consulting engineering, building foundation design, pier and wharf design, specifications, letting contracts, farm and city surveying, staking out construction, leveling, etc. (**Active practice 17.4 years: Res. Ch. 13: Design 3**). Refers to R. E. Dougherty, C. Gilman, H. S. Harding, G. A. Harwood, W. F. Jordan, G. W. Kittredge, C. L. Spaulding.

GIBBERT, JOHN CLARE NORRIS—Maplewood Cottage, Hempstead, N. Y.—(Age 35. Born New York City.)—1913 completed 4-year course in Civ. Eng. as Special Student, Columbia Univ.: 1906 to 1909 Transitman, Chf. of Party and Topographical Draftsman on surveys, with H. A. Parsons, C. E., Stamford, Conn. (2 years), and with Douglas Knox, City Engr., Bronx, N. Y. (1 year): June 1913 to April 1914 Jun. Asst., Design Dept., Public Service Comm., New York City, on new subway steel and concrete structures: April 1914 to Aug. 1915 Leveler, in charge of Ontario County highway construction and maintenance, New York State Highway Dept.: Aug. 1915 to April 1916 with Apex Explosives Co., New York City, in charge of Design Dept. and Chf. Field Engr. on buildings, railroad layouts, etc.: April 1916 to Sept. 1918 with The Foundation Co., New York City, as follows: April to Sept. 1916 Chf. Field Engr., at Kingsport, Tenn., on construction of chlorine plant power house and transformer station for Federal Dye-stuffs & Chemical Co.; Sept. 1916 to Jan. 1918 Chf. Field Engr. at Port Colborne, Ont., Canada, on construction and equipment of plant for International Nickel Co., industrial buildings (brick, steel, concrete and wood) calcining, reverberatory and Bessemer furnaces, sewers and Imhoff tank, water lines and intake, streets and roads, railroad and classification tracks, club and lodging houses and dwellings, power house, etc.; full charge of field layouts Inspection Dept., Field Design Dept., Estimating, Cost Accounting and Progress Dept.; Jan. to June 1918 Chf. Field Engr. and Supt., at Savannah, Ga., in full charge of design, construction and installation of buildings and equipment of shipyard for steel mine sweepers, docks, dredging, etc.; June to Sept. 1918 Asst. Supt. at Edgewater Arsenal, Md., on construction and equipment of power house (two 10 000-k.w. units): Sept. 1918 to March 1919 Supt. of 6-in. 50/50 shell-loading Plant, Atlantic Loading Co., Amato, N. J.: April to Aug. 1919 with Eastern Potash Corporation, New Brunswick, N. J., installing system of cost accounting, progress reports and charts, material records, time and store keeping, etc., for construction of plant: Aug. 1919 to April 1921 with Raritan Refining Corporation, New Brunswick, on field design, Chf. Field Engr. and Supt. of Constr. of oil refining plant: June 1921 to Jan. 1922 Asst. Supt., The Foundation Co., New York City, on construction of boiler house for Great Northern Paper Co., at Millinocket, Me.: May to Aug. 1922 Engr. in charge of highway construction, surveys, etc., with C. E. Marshall, Civ. Engr., Hempstead, N. Y.: Aug. 1922 to date Transitman, Acting Asst. Engr., on design and construction of highways, Nassau County Highway Dept., Mineola, N. Y. (**Active practice 12.2 years: Res. Ch. 9.9: Design 4.1**). Refers to C. A. D. Bayley, C. E. D. Marshall, H. A. Parsons, G. V. Salle, N. Sherwood, W. F. Starks, W. Steinbruch.

HAGINIUS, ERIC—U. S. Geological Survey, Washington, D. C.—(Age 28. Born Kjaeflinge, Sweden.)—Sept. 1913 to Aug. 1914 Student, Farman Bros. Flying School, Paris, France: Aug. 1914 to Jan. 1915 Cadet, Royal Swedish Naval Flying Corps: Jan. 1915 to May 1916 in charge of aircraft at Delarö, Sweden, on coast patrol, etc.: May 1916 to Nov. 1917 in France and United States on study of airplane photographic possibilities for war time mapping needs, etc.: Nov. 1917 to Sept. 1919 with U. S. Army, as Instructor in aerial photography as applied to mapping and in responsible charge of aerial mapping in southwestern United States: Sept. 1919 to Aug. 1922 with U. S. Geological Survey, until April 1920 on planetable traverses, graphic and primary triangulation in Maine and Texas; then on topographic mapping of Haiti and Santo Domingo, in complete charge of all field work in production of aerial photographs, also office construction of map from photographs: 1922 to Feb. 1923 Chf. Engr., Fairchild Aerial Camera Corporation, on construction of maps from airplane photographs, particularly the flying and construction of map of Kansas City: at present with U. S. Geological Survey as Photo-Topographic Engr., in responsible charge of map construction, and design of feasible methods for

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- handling co-ordination of aerial and ground work. (Active practice 8.3 years: Res. Ch. 6.8: Design 5.4). Refers to C. H. Birdseye, E. R. Gayler, T. G. Gerdine, T. P. Pendleton, L. B. Roberts, F. Sutton.
- HART, FREDERICK MASON—1828 Kilbourne Pl., N. W., Washington, D. C.—(Age 41. Born Waverly, N. Y.) (M. D., George Washington Univ., Washington, D. C., 1905.)—
 420 1903 to 1904 (1½ years) Topographic Draftsman, U. S. Coast and Geodetic Survey, Washington, D. C., topographic drafting, computing and plotting soundings from field notes, constructing projections, etc.: 1904 to 1906 (nearly 2 years) Cartographer, U. S. Reclamation Service, Washington, D. C., compiling, designing and research work: 1906 to 1907 (nearly 1 year) Cartographer (under Chf. Engr.), U. S. Army of Cuban Occupation, at Havana, Cuba, in charge of cartographic engineering work: 1907 to date with U. S. Geological Survey, nearly 10 months as Cartographer, at Washington, D. C., and past 15 years Cartographic Engr.; Prin. Asst. to Chf. Cartographic Engr., at various times in responsible charge of Cartographic Sec., computing and designing and responsible for successful execution of numerous cartographic engineering projects. (Active practice 20 years: Res. Ch. 2.7: Design 11.7). Refers to E. C. Bebb, C. H. Birdseye, E. M. Douglas, J. C. Hoyt, A. A. Stiles.
- HASSAN, ACHESON FLYNN—3607 Newark St., Washington, D. C.—(Age 51. Born Germantown, Pa.)—Aug. 1891 to June 1896 Rodman, Chainman, Levelman and Transit-
 421 man on land surveys, with H. B. Looker, Washington, D. C.: June 1896 to Feb. 1897 Levelman in charge of party, Indian Territory surveys, and March 1897 to Dec. 1898 (5) Draftsman compiling and drafting township plats from field notes, in charge in absence of Chf. Draftsman, U. S. Geological Survey: May 1899 Draftsman, U. S. Coast and Geodetic Survey: May 1899 to March 1900 Draftsman, Div. of Topography, Post Office Dept., state map compilation and miscellaneous map drafting: March 1900–Nov. 1917 with U. S. Geological Survey, until Jan. 1903 as Asst. Topographer and Topographer, traversing and sketching topographic maps, and inking maps; then (5½ years) Topographer on examination of original field sheets prior to publication; after July 1908 Chf. Cartographic Engr. in charge, compilation of U. S. part of international map of the world: Dec. 1917–March 1919 Capt., Corps of Engrs., U. S. Army, in charge of preparation of original topographic maps for publication: April 1919 to date Chf. Cartographic Engr., U. S. Geological Survey, in charge of compilation of U. S. part of international map of the world. (Active practice 31.1 years: Res. Ch. 20.2: Design 13.4). Refers to E. C. Bebb, C. H. Birdseye, E. M. Douglas, J. C. Hoyt, A. A. Stiles.
- HEATH, WOODSON FEARING—San Benito, Tex.—(Age 29. Born Victoria, Tex.) (C. E. Univ. of Tex., 1917.)—June to Nov. 1917 Leveler, Baltimore & Ohio R. R.; Nov. 1917
 422 to Dec. 1918 Instructor, School of Military Aeronautics, Machine Guns Div. (during war school was branch of Texas Univ.), from May to Dec. 1918 Extra Class Supt. in (15) charge of some instructors: Dec. 1918 to date Asst. Engr., Cameron County Water Improvement Dist. No. 2, San Benito, canal location, mapping, design and construction of reinforced concrete, iron and wood irrigation structures: since Feb. 1922 also Asst. to Wm. E. Anderson, Cons. Engr., on design of pumping plant and filter plant for Robstown, Tex., design of relift for sewage-disposal plant, also street paving for San Benito. (Active practice 5.7 years: Res. Ch. 3.6: Design 2). Refers to E. C. H. Bantel, O. A. Faris, H. B. Livingston, R. Reimann, A. Tamm, W. O. Washington.
- HENDRY, JAMES ROWLEY—8167 LaSalle Boulevard, Detroit, Mich.—(Age 40. Born Indianapolis, Ind.) (B. S., Univ. of Mich., 1906.)—July 1906 to Jan. 1909 Rodman,
 423 Inspector, Draftsman and Instrumentman on construction of filtration and pumping plant and water mains, Columbus, Ohio: Jan. to July 1909 in Eng. Dept., Detroit (7) Limited Ry., track and bridge design and field work for same: July 1909 to Feb. 1923 in City Engr.'s office, Detroit, Mich., map and plat work, bridge, sea wall, dock and sewer design: Feb. 1923 to date with Rapid Transit Comm., Detroit, as Prin. Asst. to J. P. Hallihan in charge of engineering for commission for report and recommendation on rapid transit for Detroit. (Active practice 16.6 years: Res. Ch. 10.7: Design 3.5). Refers to G. H. Fenkell, J. P. Hallihan, J. M. Hartgering, C. W. Hubbell, R. H. McCormick, A. Roth, E. M. Walker.
- HOPPEN, ROBERT, Jr.—26 Marion St., Nyack, N. Y.—(Age 41. Born London, England.)—
 1898 to 1900 (2 years) learning drafting, Sexsmith Cabinet Co., Nyack, N. Y., on office
 424 and bank fixtures, etc.: 1900 to Sept. 1906 with Erie R. R. Co. as follows: 1900 to 1902

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- (2½ years) Inspector, Office of Div. Engr., Jersey City, N. J., transit and level work, etc.; Aug. 1902 to Sept. 1903 in charge of 5 miles of construction, Graham to Otisville, N. Y., removing nine rock cuts, realignment of track, etc.; Sept. 1903 to Jan. 1904 Asst. Engr. on preliminary location, transit, level and topography, also preparation of map; Feb. to Oct. 1904 Engr. in charge of extension of coal-handling plant at Rochelle Park, N. J., foundation work, rock excavation, rearrangement of tracks and extension to small bridge; Nov. 1904 to Feb. 1905 transit, level, topography, plotting and mapping, also Inspector on reconstruction of 23d St. ferry terminal, New York City; Feb. to June 1905 Engr. in charge of insurance surveys, including mapping of buildings within 300 ft. of Company buildings and terminal facilities; June to Oct. 1905 Engr. in charge of surveys, mapping and estimating double-tracking of Bergen County Short Cut (10 miles long); Oct. 1905 to Sept. 1906 Engr. in charge of surveys, plans and estimates for elimination of grade crossings, also method of elimination, cost and negotiations with Town Board, making of accident surveys and Court appearance: Sept. 1906 to Dec. 1907 in Designing Engr.'s office, New York Central R. R. Co., New York, on design of culverts, abutments, yards, etc.: 1908 (11 months) in private practice of engineering and surveying at Nyack, N. Y., road and property surveys, also laying of brick pavement, building of water system, reservoir, driveways and foundations for private dwellings: Dec. 1908 to March 1910 Draftsman, Public Service Comm., 1st Dist., Brooklyn, N. Y., subway construction: March to June 1910 Structural Steel Draftsman, Dept. of Yards and Docks, Brooklyn: July to Dec. 1910 Supt. for Duell Holloway, Tarrytown, N. Y., on street paving, road building: March to Sept. 1911 Asst. Engr. with Cons. Engr. for Gulf, Florida & Alabama R. R., Pensacola, Fla., on preliminary and location: Feb. to Sept. 1912 Res. Engr., Erie R. R. Co., in charge of 23 miles of double-tracking of the Chicago and Erie, Marion to Kenton, Ohio, consisting of preliminary surveys, grade reduction, design of abutments and piers of several bridges; also rearrangement of throat of Marion Yard at west end; latter part of year in New York office in charge of field work, plans and estimates and method of elimination of grade crossing changes; from Sept. 1912 to July 1918 made surveys, plans and estimates and supervised construction of various grade-crossing eliminations, and plans, surveys, and construction of elimination at Ridgewood, N. J., including building of new station, two subways; investigation of elimination of fifteen crossings through Paterson; plans and estimates for enlargement of Marion (Ohio) Yard, including track arrangements for 650-capacity car garage; construction of coal-unloader at Edgewater, including construction of 1200-ft. pier, rearrangement of Edgewater Yard, demolition of roundhouse and erection of new one at Little Ferry, N. J., with power house and coal-unloader; during absence of Res. Engr. took over construction of 36 all around house turntable, coal-handling plant, machine shop, ash pits, etc.; latter part of 1917 took charge of valuation of Northern R. R. of New Jersey, New Jersey & New York R. R., and others, and all terminal facilities in Jersey City, Croxton, Weehawken and Edgewater: July 1918 to date Chf. Engr., New York Dock Co., Brooklyn, on maintenance and upkeep of approx. 190 buildings, 34 piers, three railroad terminals, 10½ miles of railroad track, 2½ miles of bulkhead; removed about 4 000 ft. of wooden wharf and crib bulkhead and replaced with concrete bulkhead and paved wharf; demolished four old piers and designed and constructed four new ones in their place; erected reinforced concrete warehouse, two freight stations (brick), brick engine house and brick office building, together with rearrangement of several warehouses, making them suitable for manufacturing occupancies. (**Active practice 24.5 years: Res. Ch. 15.5: Design 15.7**). Refers to R. T. Betts, M. W. Brown, H. W. Edwards, C. H. Moore, J. W. Ripley, A. A. Robbins, C. H. Splitstone.

- HORSFALL, HERBERT**—61 A. M. P. Chambers, William St., Perth, Western Australia—(Age 43. Born Farnsworth, England.)—Took Civ. Eng. course and part of Architectural 425 and Mech. Eng. courses, International Correspondence Schools, London, England: 1894 to 1900 (6 years) Apprentice, I. Taylor & Sons, Gen. Contrs., Farnsworth, England, in (1) shop on wood and steel construction; in field surveying and on erection of factories, etc., and in office drawing, estimating, quantities, etc.: 1900 to 1908 with Lancashire & York Ry. Co., England, 2 years as Draftsman, Hydr. Engr.'s Dept., making drawings of details of cranes, pumps, engines, etc., and on supervision of general repairs to same; 6 years Draftsman and Eng. Asst. in charge of structural work, Chf. Mech. Engr.'s Dept., responsible for survey of locomotive workshops, levels, sections, etc., survey of Southport to St. Lukes Station for electrification scheme, redesign of station to carriage repairing shops, including installation of plant (cost £75 000), design and erection of pump house and boilers for Formby Power Station, L. & S. Elec. Ry. (cost £25 000),

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steel-framed buildings for offices, Newton Heath Locomotive Shops (cost £8 000), valuation of workshops of company (£100 000), etc.: 1908 to 1911 (3 years) Supt. of Drawing Branch, H. H. The Nizam's State Rys., India, preparing stress diagrams and calculations for girder bridges for heavier locomotives throughout system; designing thirty steel and masonry bridges (cost £225 000), steel roofs and other structures for Puma-Hinpoli construction (£50 000), reinforced concrete bridge, foundations, and concrete arches for masonry bridges (£80 000): 1911 to 1912 (1 year) Leading Designer, Spencer & Co., Engrs. and Contrs., Melksham, England, design of steel coal-handling plant for Shanghai, China (cost £30 000): 1912 to 1920 (8 years) Asst. Engr., Public Works Dept., Perth, Western Australia, designed and constructed five steel lighthouses for N. W. Coast (cost £15 000); designed and erected State saw mills (£75 000); designed 1 000 000-gal. reinforced concrete reservoir (diameter 130 ft.) with pipe line, etc., steel oil storage tanks (diameter 53 ft., 45 ft. high) for 4 000 tons of oil, with piping and gravity feed to boilers (cost £150 000), preparation of designs and calculations for combined road and rail bridge (8 spans of 150 ft., cost £500 000) with viaduct at each end: 1920 to 1923 (2 years) Mgr. and Engr., North West Whaling Co., on reconstruction of two whaling steamers, plant and construction of shipways, cradles and dock (£25 000). (Active practice 28 years: Res. Ch. 23: Design 12). (Applies in accordance with Sec. 1, Art. 1, of the By-Laws.)

HUNNICUTT, JAMES MADISON—627 Henry St., S. W., Roanoke, Va.—(Age 21. Born Birmingham, Ala.) (B. S. in C. E., Ala. Pol. Inst., 1922.)—June to Sept. of years 426 1916–1920 Structural Tracer and Detaller, Southern Bridge Co., Birmingham, Ala.: June to July 1921 Student, Engr. Sec., R. O. T. C., Camp A. A. Humphries, Va.: Sept. (5) 1922 to date Structural Detaller, Virginia Bridge & Iron Co., Roanoke, Va. (Active practice 1.3 years). Refers to C. A. Baughman, J. A. C. Callan, H. M. Derr, A. R. Peyton, W. E. Putnam.

JORDAN, BASIL JORDAN—44 South Oxford St., Brooklyn, N. Y.—(Age 25. Born Cesarea, Asia Minor.) (B. S. in C. E., Eng. School, Robert Coll., Constantinople, 1920.)—March 427 to Oct. 1918 Draftsman, Deutsches Syndicat für Städtebauliche Arbeiten in der Türkei, city surveying of Constantinople: June 1920 to May 1921 Constr. Engr. and Designer, (1) Standard Oil Co. of New York, in main office, Levant Branch, Constantinople, on erection of installations: June 1921 to Dec. 1922 Designer (Structural), C. P. Pappa & Co., Archts. and Contrs., Constantinople, on reinforced concrete and steel structures, etc. (Active practice 3 years: Res. Ch. 0.4: Design 1.5). Refers to W. E. Wilbur, H. C. Woods. (Applies in accordance with Sec. 1, Art. I of the By-Laws.)

KEESLER, ROLLO—1121 E. 8th St., Anderson, Ind.—(Age 32. Born Moline, Ill.)—June 1908 to June 1910 Designer, National Tile Co., Anderson, Ind., computing and making 428 plans for installation of floor and wall tile: June 1910 to June 1912 Draftsman, American Steel & Wire Co., Anderson, miscellaneous drafting, machine work, industrial (9) buildings, plant maintenance and mapping: June to Aug. 1912 Draftsman, American Rotary Valve Co., Anderson, electric motor drafting: Aug. 1912 to July 1917 Office Engr., Union Traction Co. of Indiana, Anderson, survey work and mapping, track special work renewal and design, architectural and bridge drafting: July to Oct. 1917 Instrumentman, Cleveland, Cincinnati, Chicago & St. Louis R. R. Co.: Oct. to Dec. 1917 Draftsman, Cleveland (Ohio) Frog & Crossing Co., computations and drafting, track special work: Dec. 1917 to Aug. 1919 with Union Traction Co. of Indiana, as Office Engr. on surveys, mapping, track special work renewal and design, architectural and bridge drafting; and Div. Engr. in charge of section gangs on 150 miles of interurban and city track: Aug. 1919 to Aug. 1920 Checker on production drawings of pumps, Midwest Engine Co., Anderson: Aug. 1920 to date Asst. Engr. M. of W., Union Traction Co. of Indiana, on surveys, mapping, track special work renewal and design, architectural and bridge drafting, and supervision of bridge and carpenter gangs. (Active practice 14.8 years: Res. Ch. 3.4: Design 11.4). Refers to T. R. H. Daniels, T. H. David, J. S. Hancock, L. A. Mitchell, A. M. Turner.

KENT, CHARLES NELSON—4 West 43d St., New York City—(Age 47. Born New York City.)—3 years student, School of Arts, Columbia Univ.: prior to 1915 member of firm, 429 Claflin & Kent, Archts. (5 years), and Architectural Designer, Public Service Comm. of New York (about 2 years): Aug. 1915 to Jan. 1918 Chf. Inspector, Bureau of Bldgs., (1) New York City, in charge of Inspection (Constr.) Div.: July 1918 to July 1920 Office Supt. or Mgr. for F. Burrall Hoffman, Jr., Archt., New York City: July 1920 to Sept.

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1922 Office Supt. or Mgr. for John Mead Howells, Archt., New York City: Sept. 1922 to date Office Supt. or Mgr. for R. F. Almirall, New York City: Registered Archt., State of New York. (Active practice 14 years: Res. Ch. 14: Design 5). Refers to R. F. Almirall, W. B. Claflin, A. B. Fry, A. L. P. Johnson, E. D. V. Tompkins.

KIRBY, KYREL ELLSWORTH—Gulf, Colorado & Santa Fe Ry., Galveston, Tex.—(Age 36. Born Hindsboro, Ill.)—April 1908 to April 1909 Inspector on sewer and paving construction, and April 1909 to Oct. 1911 Asst. Office Engr., estimating paving and sewer construction, City of Oklahoma City: May 1912 to Jan. 1914 Pile Recorder, Draftsman (15) and Topographer, Southern Eng. & Constr. Co.: March to Oct. 1914 Instrumentman and Inspector, Harris County, Tex., on road work: May to Dec. 1915 Asst. Engr., Southern Traction Co., in responsible charge, as Asst., on track laying and street paving, electric railway construction: Dec. 1915 to Sept. 1916 Draftsman on construction, Union Terminal Co.: Nov. to Dec. 1916 Draftsman on valuation maps, Texas & Pacific Ry. Co.: Dec. 1916 to Feb. 1917 Draftsman, City of Dallas, detail drawing, computing and checking quantities on paving estimates: Feb. 1917 to Oct. 1919 Valuation Engr., Union Terminal Co., in responsible charge of Federal valuation and also necessary construction and maintenance: Oct. 1919 to June 1920 Chf. Land Appraiser, Gulf Coast Lines, in charge of land appraisal, Federal valuation: June 1920 to Jan. 1921 Valuation Engr., Union Terminal Co., in charge of engineering features of claim against U. S. R. R. Administration for depreciation of property during period of Federal control: Jan. 1921 to date with Gulf, Colorado & Santa Fe Ry. Co., in charge of engineering on Union Terminal at Dallas, Tex. (about one-fourth of time on this work) and Land Appraiser; since July 1922 Asst. Engr., Federal valuation land appraisal, had charge of investigation and presentation to Bureau of Valuation, claim for reclassification of lands of all G. C. & S. F. lines classified by Government appraisers as not needed for carrier purposes. (Active practice 13.5 years: Res. Ch. 5.7: Design 0.2). Refers to E. L. Hawkins, F. A. Jones, C. G. Landon, J. Lansdale, E. N. Noyes, J. N. Olson, W. J. Powell, F. E. Robertson, G. E. Rogers, W. N. Thatcher, G. G. Wickline.

KIRCHOFFER, WILLIAM GRAY—22 North Carroll St., Madison, Wis.—(Age 52. Born Elkhorn, Wis.) (B. S. in C. E., 1897, and C. E., 1901, Coll. of Mechanics and Eng., Univ. of Wis.)—Jan. to July 1896 (while student) Part Time Director of Manual Training School, Janesville High School: 1897 to 1923 (26 years) sanitary and hydraulic (7) engineering, has designed either all or a part of 150 or more water-works plants and sewerage systems in villages and cities (cost \$5 000 to \$190 000), work including the following: 1897 to 1904 (7 years) City Engr., Baraboo, Wis., designing and supervising construction of sewers, pavements, bridges and general city work: 1902 to 1903 (part of time) Instructor in Water Supply and Sewerage, Univ. of Wisconsin: 1903 to 1920 (17 years) Cons. San. Engr., State Board of Health, on investigation of water supplies and sewerage systems for cities, also approval of plans of other engineers for such construction; 1903 to 1922 (19 years) consulting sanitary work for State of Wisconsin, in charge of design and construction of improvements to water supplies and sewerage systems for State institutions (under Board of Control until Sept. 1915, then under State Eng. Dept.); 1906 to 1909 consulting sanitary engineering work on design and construction of water-works and electric light plant, Port Washington, Wis. (cost \$80 000 to \$100 000), lake intake 2 800 ft. into Lake Michigan, water supply, Marathon Paper Mills Co. (22 wells 80 ft. deep, 5 000 000 gal. daily, 60-ton mill); 1910 to 1912 (2 years) on Antigo Intercepting Sewer, 2½ miles, 24-in. pipe, tanks and 2½ acres of sand filters (cost \$50 000); 1919 to 1921 (2 years) for Milwaukee County Institutions, Wauwatosa, Kirdorthoff Tank and sand filters (cost \$80 000); 1918 (3 months) sewage disposal, Madison, Wis., investigations of existing plant with reference to lake pollution; 1919 to 1921 (2 years) for Viroqua, Wis., 10 miles of sewers, two sewage-disposal plants, Kirdorthoff Tank and sprinkling filters, underground disposal; 1920 to 1922 (2 years) water-works and sewage, Cedarsburg, Wis. (cost \$190 000), 6 to 7 miles of mains, pumping plant, well, etc. and two disposal plants: also on experimental work in sewage disposal, being Designer of Kirdorthoff Sewage Tank, and of sludge circulation and aeration system as installed at Johnson Creek and Mt. Horeb, Wis.; 1½ years on investigation for removal of iron and manganese from water supplies, Wausau, Wis., etc. (Active practice 26 years: Res. Ch. 14.7: Design 11.5). Refers to W. D. Gerber, T. C. Hatton, G. P. Hawley, D. W. Mead, L. S. Smith, F. E. Turneure.

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KURRIE, GEORGE RICHARD—333 South 21st St., Philadelphia, Pa.—(Age 55. Born Paoli, Ind.) (B. C. E., Ohio Normal Univ., 1888.)—April 1889 to Feb. 1892 Estimator, 432 Draftsman and Asst. Engr. in office of Chf. Engr., constructing R. N. I. & B. Ry. (now Louisville & Nashville) from Versailles to Beattyville, Ky.: March to May 1892 surveying, extending Boise (Idaho) Meridian from Northern Pacific R. R. to International Boundary: May 1892 to April 1896 with Shiffler Bridge Co., until July 1894 as Estimating and Designing Engr., at Pittsburgh, Pa., then in charge of Philadelphia office: May 1896 to Sept. 1897 Sales Agt., Philadelphia office, Pottsville Iron & Steel Co.: Oct. 1897 to 1912 (14½ years) in private practice as Contr. Engr.: 1912 to 1917 (4 years) Farmer and Traveler: June 1917 to Sept. 1920 in charge of Constr. Div., Bureau of Yards and Docks, Navy Dept., Washington, D. C.: Oct. 1920 to date in private practice as Advisory Engr. (Active practice 28.6 years: Res. Ch. 6.5: Design 3.8). Refers to E. Clark, M. W. Easby, F. S. Foulkrod, H. H. Rousseau, P. M. Sax.

LANT, NORMAN EDWARD—Care, Louisiana Highway Comm., Baton Rouge, La.—(Age 33. Born Evansville, Ind.) (B. S. in C. E., Purdue Univ., 1913.)—June to Sept. 1912 Surveyor, Evansville (Ind.) Water Works Board, making survey and mapping water distribution system: June 1913 to May 1914 Detailer and Checker, Pan American Bridge (15) Co., New Castle, Ind., making and checking shop details for bridges and buildings: May 1914 to June 1917 not on engineering work: June 1917 to Aug. 1919 with U. S. Army Engrs., Regular Army, with combat Engr. Regt.: Sept. 1919 to Jan. 1921 Bridge Designer, Indiana State Highway Comm., making designs and estimates for bridges: Jan. 1921 to Sept. 1922 Highway Bridge Engr., U. S. Bureau of Public Roads, inspection and supervision of bridge work for Federal Aid projects in Arkansas: Sept. 1922 to date State Bridge Engr., Louisiana Highway Comm., in charge of design and construction of bridges. (Active practice 6.6 years: Res. Ch. 2.3: Design 1.8). Refers to J. H. Ayres, J. D. Fauntleroy, J. M. Fourmy, G. W. Mayo, E. P. Shuman, G. H. Sykes, W. J. Titus.

LEAHY, JOHN—528 East 79th St., New York City—(Age 35. Born New York City.)—July 1912 to May 1915 Inspector, Bureau of Highways, Borough of Brooklyn, N. Y., on 434 construction, regulating, grading, paving roadways, laying sidewalks, setting curb and inspection of materials for same: May 1915 to Sept. 1916 Eng. Draftsman, Aetna (1) Explosives Co., New York City, structural designing and detailing of factory buildings and apparatus: Oct. 1916 to date Structural Designer, Union Carbide & Carbon Corporation, New York City, structural steel and reinforced concrete design of factory buildings. (Active practice 9.8 years: Res. Ch. 6: Design 7.6). Refers to G. Berry, C. D. Collins, L. H. Davis, H. L. Noyes, J. Strachan.

MCCOMBER, FRANK AMASA—City Engr.'s office, Duluth, Minn.—(Age 42. Born Duluth, Minn.)—1905–1911 took courses in mechanical, electrical and civil engineering, International Correspondence Schools, Scranton, Pa.: 1905 to 1906 (1 year) Draftsman, Clyde Iron Works, Duluth, Minn.: 1906 to 1909 (3 years) drafting, calculating, surveying and engine-room work, Duluth St. Ry. Co.: 1909 to 1913 (4 years) in private practice, contracting, on dwellings, earth and rock work: 1913 to Aug. 1915 (2 years) transit work on road construction, St. Louis County, Minn.: Aug. 1915 to May 1917 Asst. Engr. on drainage work, County ditches Nos. 5, 7, 8 and 11, preliminary work, estimates, construction; in direct charge of work (\$80 000), design included: May 1917 to Feb. 1919 with U. S. Army, 11 months in United States as Disbursing Engr. Officer, Camp Dodge, Iowa, and 10 months in France as Asst. on warehouse construction and in direct charge of design and construction of drainage system, Gievres, France; in direct charge of distribution and handling of Engr. labor, Gievres, and of combatant Engrs., in Vosges Mts., St. Mihiel, Meuse Argonne (7th U. S. Engrs.): March 1919 to June 1920 Locating and Div. Engr., St. Louis County, Minn., direct charge of work, including location, design and construction of highways (total \$3 500 000): June 1920 to Feb. 1923 Field Engr., and Feb. 1923 to date Prin. Asst. City Engr., Duluth, in direct charge of work (\$536 000), preliminary, design and construction, mostly pavements and storm sewers. (Active practice 17.5 years: Res. Ch. 6: Design 2). Refers to G. H. Butler, Sr., W. N. Carey, J. Carson, E. K. Coe, E. H. Dresser, E. W. Kelly, T. F. McGilvray, E. H. Marks, E. C. Slocumb.

MCGINLEY, JOHN JOSEPH—62 Morton St., New York City—(Age 34. Born New York City.) (B. S., Coll. of City of N. Y.; C. E., Columbia Univ., 1912.)—July 1912 to Feb. 436 1913 Inspector of materials and work on highway construction, Bureau of Highways,

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- Dept. of Public Works, New York City: April to May 1913 Chainman, Pennsylvania
- (1) R. R., Instrumentman, drafting, etc.: May to Sept. 1913 Chainman, New York Connecting R. R., Hell Gate Bridge Viaduct, Astoria, N. Y., Instrumentman, drafting, computing, etc.: Sept. to Dec. 1913 Draftsman with Noble & Woodward, Cons. Engrs., New York City, drafting and computing on alternate designs of reinforced concrete boat and structural steel concrete filled boat types of dry dock for Pearl Harbor, Hawaii; estimating material for Moscow, Russia, terminal railway: Jan. 1914 to Jan. 1918 Jun. Asst. and Jun. Engr., New York State Public Service Comm. for 1st Dist., New York City Subway construction, in charge of field party giving line and grade for structural steel and reinforced concrete, monthly estimates, railroad computations, building underpinning, building examination: Jan. 1918 to June 1919 2d Lieut., Air Service, U. S. Army: Aug. to Nov. 1919 Draftsman, Westinghouse, Church, Kerr Co., New York City, on reinforced concrete and structural steel industrial buildings, reinforced concrete footings on pile foundations: Nov. 1919 to May 1922 Structural Designer, The Texas Co., New York City, designing and drafting reinforced concrete and structural steel industrial buildings, oil tanks, gasoline filling stations, field work, giving line and grade on filling stations: May to Nov. 1922 Draftsman with McClellan & Junkersfeld, Engrs. and Constructors, New York City, on steel, reinforced concrete and topographical plans and sections for power plants, also general layout plans, sections and elevations: Nov. 1922 to date Asst. Engr., Dept. of Plant and Structures, New York City, designing reinforced concrete footings on piles, supporting steel grillages, checking steel details, estimating quantities, industrial buildings. (Active practice 8.9 years: Res. Ch. 5.1: Design 2.8). Refers to E. C. Church, J. A. A. Connelly, W. C. McNaughton, G. J. Meise, B. L. Rees, W. F. Stevenson.

MATTHEWS, MEDWIN—P. O. Box 350, Clayton, N. J.—(Age 26. Born Scranton, Pa.) (S. B., Mass. Inst. Tech., 1920.)—June 1920 to June 1922 Asst. to Prof. of Hydr. Eng., 437 Dept. of Civ. Eng., Massachusetts Inst. of Technology: July 1922 to date Engr. for Hungerford & Terry, Inc., Filter Mfrs., Clayton, N. J.; makes all plans, estimates and (4) requisitions for materials. (Active practice 2.7 years: Design 0.7). Refers to J. B. Babcock, 3d, H. K. Barrows, J. W. Howard, D. Porter, C. M. Spofford.

MILLER, MAURICE LAWRENCE—203 Boston Bldg., Denver, Colo.—(Age 32. Born in Coshocton County, Ohio.)—June to Dec. 1912 Tool and Jig Designer, Kent (Ohio) 438 Machine Co., also design and detail of continuous concrete mixer: Dec. 1912 to Sept. 1913 Draftsman and Detailer, International Harvester Corporation, Akron, Ohio, on (11) motor trucks: Sept. 1913 to June 1914 Draftsman, Michigan Central R. R.: June 1914 to Nov. 1915 Asst. Engr., Pere Marquette Ry., and Detroit United Ry., Ann Arbor, Mich., in charge of all track and specials relative to their valuation, for Michigan State Utilities Comm., as made by M. E. Cooley, Ann Arbor, Mich.: Nov. 1915 to Nov. 1916 Draftsman, Atchison, Topeka & Santa Fe Ry., Amarillo, Tex., in charge of Santa Fe uniform profile Datum System, also on terminal and track layout work, improvements and betterments and valuation map work: Nov. 1916 to Nov. 1917 Draftsman, Union Pacific Ry., Omaha, Nebr., in charge of office work on second track layout profile and construction; Squad Chf. Draftsman on valuation: Nov. 1917 to Nov. 1918 Jun. Engr. (Partner), E. M. Rohrbough Eng. Co., Omaha, Designer of Ord., Nebr. Sewer System; also State Bridge Engr. and Inspector, Lincoln, Nebr., being Superv. Engr., Elkhorn River Bridge, Platte River Bridges at Mitchell and Scottsbluff; also Asst. Engr., U. S. Reclamation Service, Mitchell, on location and design, North Porte Irrigation Canal and all structures: Nov. 1918 to June 1919 Engr., U. S. Bureau of Public Roads, Dist. No. 3, Denver, Colo., on road and bridge designs and layouts, road relocation and construction: June 1919 to date Cons. Engr. at Denver, Designing and Superv. Engr. on paving and storm sewers, Ft. Morgan, Colo.; Chf. Engr., on relocation and construction, Duell & Snyder Irrigation Canal, Ft. Morgan; Designing Engr., city water system and sewer system, Englewood, Colo.; Designing and Superv. Engr., paving and sewer system, Sterling, Colo.; Designing Engr., city water system, Sterling; Cons. and Superv. Engr., 4 200-ft. water tunnel and city water system, Glenwood Springs, Colo. (under construction). (Active practice 10.7 years: Res. Ch. 5.9: Design 2.2). Refers to C. A. Betts, W. B. Freeman, H. E. McClintock, A. E. Palen, H. E. Riggs.

MOIR, WALLACE—Worrell Eng. Co., Moorestown, N. J.—(Age 46. Born Scranton, Pa.) (C. E., Cooper Inst., 1905.)—1897 to 1900 (3 years) Asst. Engr. in charge of sewer 439 and pavement construction, City of Scranton, Pa.: 1900 to 1901 and 1903 to 1906 (6 years) Asst. Engr. in charge of location, Erie R. R.: 1901 to 1902 Asst. Engr. in

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- (4) charge of construction, New York Central & Hudson River R. R.: 1902 to 1903 Asst. Engr., Delaware, Lackawanna & Western R. R., on maintenance of way, bridges and culverts, change of alignment and grade revision: 1906 to 1907 (2 years) City Surveyor, New York City: 1908 to 1912 Cons. Engr. on roads, sewers and pavements, Taylor, Moscow, Vandling and Duryea Boroughs, Pa.: 1908 to 1921 Supt. of Constr., A. McMullen Co. (1 year) and McDonald Constr. Co. (1 year); also Supt. and Engr., Wade & Morrison, North Carolina, H. E. Brennaman & Co., H. H. Terry & Co., and Stone & Webster, Philadelphia, Pa.: past year and at present Chf. Engr., Worrell Eng. Co. (Active practice 23 years: Res. Ch. 23: Design 23). Refers to L. Bush, C. H. Moore, G. J. Ray, J. H. Terry, W. J. Wilgus, F. G. Wolfe.

NEWMAN, HARRY—635 Macon St., Brooklyn, N. Y.—(Age 21. Born New York City.) 440 (B. S., 1922, and C. E., 1923, Coll. of City of N. Y.)—Refers to L. Goodman, (1) R. E. Goodwin, F. O. X. McLoughlin, W. E. Rosengarten, D. B. Steinman.

- PITTS, NELSON FREDERICK, Jr.—400 W. Onondaga St., Syracuse, N. Y.—(Age 35. Born Ballston Spa, N. Y.)—1907 to 1910 (3 years) student in Civ. Eng., Trinity Coll.: summers 441 (during college course) with Brown & Lowe Co., Gen. Contrs., Schenectady, N. Y., as Time-keeper on construction of sewage-disposal plant, etc.: April 1911 to Jan. 1912 Asst. Supt. (3) and Estimator, same Company, computed bids and monthly and final costs of construction: May 1913 to Jan. 1914 Civ. Engr., City of Schenectady, representing the city as Civ. Engr. on construction of pavements being built and financed by Gen. Elec. Co.: April to July 1914 Draftsman on plans and profiles, July 1914–Sept. 1917 Leveler in charge of survey party, and Oct. 1917 to Jan. 1923 Asst. Engr. in charge of design and office staff and construction of city pavements, City of Syracuse: Jan. 1923 to date Deputy City Engr., Syracuse, in charge of Bureau of Eng. under direction of City Engr.: since Oct. 1917 also in private practice of engineering and surveying at Syracuse, on investigations, designs, surveys, reports, land subdivisions, etc. (Active practice 10.4 years: Res. Ch. 8.4: Design 1.3). Refers to H. C. Allen, H. B. Brewster, G. D. Holmes, T. H. Mather, L. Mitchell, M. B. Palmer, H. G. Throop.

- POLLARD, ALBERT HARRISON—Box 83, Syracuse, Ind.—(Age 22. Born Pickton, Tex.) (B. S. in C. E., William Marsh Rice Inst., 1922.)—June to Sept. 1920 Junior Draftsman, 442 City of Houston, Tex., map and city plat drafting: June to Sept. 1921 with Robert J. Cummins, Cons. Engr., Houston, as Res. Engr. during construction of machine shop for (9) Beaumont (Tex.) Iron Works: June 1922 to date with Gardner S. Williams, Ann Arbor, Mich., 4½ months as Draftsman and 4½ months Res. Engr. during construction of power house for Town of Syracuse, Ind. (Active practice 0.7 year). Refers to L. E. Ayres, R. J. Cummins, D. C. May, R. Norris, G. S. Williams.

- PRESTON, JOHN OWINGS—6621 Opal St., Philadelphia, Pa.—(Age 28. Born Baltimore, Md.) (Baltimore Pol. Inst., 1913; C. E., Cornell Univ., 1917.)—Jan. to April 1914 443 Tester, Electrical Laboratory, Gas & Elec. Co., Baltimore, Md.: April to Oct. 1914 Highway Inspector on asphalt, concrete and macadam roads and two concrete bridges, (4) Maryland State Roads Comm.: June to Sept. 1915 Asst. Traffic Expert for railway shipments, Intra-State Traffic Bureau, Baltimore: Sept. 1916 to May 1917 Transitman laying out real-estate developments, Ithaca, N. Y.: May to Sept. 1916 Chf. Inspector on local improvements, and June 1917 to Jan. 1918 Jun. Engr. for public works study, Rochester Bureau of Municipal Research: Jan. 1918 to April 1920 with same Bureau, until Nov. 1919 as Asst. Engr., Eng. Dept. and other studies, in charge of asphalt repairs, new plant design, Testing Laboratory and Bureau of Local Improvement, reorganizations, writing specifications for construction and repair of pavements, sewers, walks, etc., designs, costs and estimating for same; writing ordinances, analyzing street railway, track area conditions, etc.; then (Dec. 1919 to April 1920) Engr., appraising positions and making specifications for same for Eng. Dept., analyzing and assisting in problems of city budget, especially that of Eng. Dept.; in this Department had charge of all organization studies, also special studies in Depts. of Public Works and Public Safety; inspecting construction conditions for city and holding numerous conferences with city engineers regarding organization of engineering personnel and application of new local improvement specifications; organizing new daily inspection personnel and system and preparing report forms; developing engineering testing laboratory and assisting in establishing procedure; working with Survey Bureau and making changes in organization and system of recording and filing maps; inspection trips to Cleveland, Buffalo, Baltimore and other cities, studying street railway track area conditions and conferring with railway

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and municipal engineers; investigating possibilities for automatic telephone system for Rochester Fire and Police Telegraph and city office systems: May 1920 to March 1923 Production Mgr., Curtis Publishing Co., Philadelphia, Pa., estimating and placing orders for printing of *Saturday Evening Post*, *Ladies' Home Journal* and *Country Gentleman*, collecting data and forecasting business possibilities, planning and scheduling special jobs and assisting in standardizing procedure, making special investigation and cost reports, developing and organizing system of functional supervision for Circulation Dept., criticizing and passing on all new promotive plans, responsible for printing and circularizing, etc., also making reports and recommendations from results obtained; in complete charge of all multigraph, mimeograph and multi-color press work; working out new procedure in co-operating with Mfg. Dept., Shipping Div. and General Stores: at present Asst. to Pres., Warren-Knight Co., Philadelphia, responsible for production problems and general administration, also for final testing of instruments manufactured and repaired by Company. (Active practice 7.5 years: Res. Ch. 4.3: Design 3.9). Refers to F. A. Barnes, C. Crandall, E. E. Haskell, C. A. Poole, J. W. Routh.

RATHJENS, WILHELM FRITZ—29 West 90th St., New York City—(Age 26. Born Altona, Germany.) (Engr., Tech. Univ. of Dresden, Germany, 1921.)—Feb. to April 1920 Fireman and later Asst. Foreman with Polensky & Zöllner, on excavating contract: Nov. 1921 to June 1922 Asst. Foreman and later Supt., and June to Nov. 1922 Supt., with Polensky (1) & Rathjens, on excavating contracts, at mines in Germany: Dec. 1922 to March 1923 Machinist, Pennsylvania R. R., repairing electric and steam locomotives: March 1923 Compressed Air Worker for Booth & Flynn, on Hudson Vehicular Tunnel: March 1923 to date Draftsman, Washington Exploration Co., Port Washington. (Active practice 1.6 years: Res. Ch. 1). Refers to P. J. Gray, R. Hering, C. M. Holland, G. Lindenthal, O. Singstad.

RAUH, CHARLES EDWARD, Jr.—207 Central Ave., West Hoboken, N. J.—(Age 22. Born West Hoboken, N. J.) (C. E., Cornell Univ., 1922.)—Nov. 1922 to date Job Accountant, 445 Turner Constr. Co., kept books, handled time, materials and payroll on concrete storage plant in Buffalo, N. Y. (Active practice 0.4 year). Refers to F. A. Barnes, C. Crandall, (1) H. N. Ogden, J. E. Perry, F. J. Seery.

REDWOOD, JOHN PERCY—349 Cutler Bldg., Rochester, N. Y.—(Age 26. Born Paul Smiths, N. Y.) (C. E., Cornell Univ., 1917.)—July–Sept. 1915 Engr. in charge of laying out and constructing 2½ miles asphalt macadam road, and June to Sept. 1916 Engr. in charge of grading grounds and surveying and mapping sewer and water and electric (3) light lines, on Wm. Rockefeller's Estate, Bay Pond, N. Y.: May to Nov. 1917 and March 1918 to Aug. 1919 1st Lieut., Inf., U. S. Army, at various times on special duty on engineering work, and from Nov. 1917 to March 1918 Engr. in charge of designing drainage system for a swamp, locating thereon and supervising construction of infantry rifle range at Newport News, Va., for U. S. Govt.: Aug. 1919 to June 1920 at Bay Pond, and Oct. 1920 to July 1922 at Malone, N. Y., in private practice as Civ. Engr., consulting, surveying and mapping concrete work, drainage, water supply, sewers, roads and pavements: June to Oct. 1920 Village Engr. and Asst. Supt. of Water-Works, Malone Village, had charge of all engineering work: July 1922 to date Engr. with Hopkins & Field, Engrs., Rochester, N. Y., Res. Engr. on sewer and water-works construction at Wilson, N. Y. (6 months), and in office (2 months). (Active practice 4.2 years: Res. Ch. 3.8: Design 2.5). Refers to F. A. Barnes, C. B. Benson, C. Crandall, A. M. Field, C. C. Hopkins, F. J. Seery.

RODEZNO, RAFAEL—17 Battery Pl., New York City—(Age 43. Born Santa Rosa, Honduras.) (C. E., Crystal Palace School of Eng., London, England, 1898.)—1898 to 1900 (2 years) Asst. Sec. Engr., Jungfrau Ry., Switzerland: 1900 to 1920 (20 years) designing and carrying out various water-power plants, water supplies and sewers, highways (1) and railroads in Central America (private work): 1920 to date (3 years) as Contr., surveying, designing and constructing railway lines between La Union and San Salvador, Santa Ana, Ahuachapan, Salvador, and Santa Ana to Zacapa in Salvador and Guatemala (total about 200 miles). (Active practice 25 years: Res. Ch. 25). Refers to T. H. Barnes, M. E. Gilmore, R. W. Hebard, S. F. Shaw, L. F. Whitbeck.

ROGDE, SIGURD OLAI—112 Garfield Pl., Brooklyn, N. Y.—(Age 28. Born Trondhjem, Norway.) (B. S., Bergen Tech. School, 1915; C. E., Cornell Univ., 1919.)—May to Aug. 1912 and Nov. 1912 to March 1913 Eng. Apprentice with Fritz Andersen, Bergen, Nor-

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- way, on construction of power stations: Aug. to Nov. 1912 Eng. Apprentice with Enar
- (1) F. Frick's Successor, G. Gran, on construction of power stations: July to Sept. 1914 and July 1915 to Jan. 1916 Civ. Engr. with Jens Skjerdal, Cons. Engr., Bergen; Surveyor in charge of surveying of estates and surveying and estimates of water-power developments: Nov. 1917 to Jan. 1918 Designer, Gunvald Aus Co., New York City, on design of office buildings: June to Oct. 1918 Structural Engr., Harris Bros. Co., Chicago, Ill., in charge of engineering and construction of work in structural steel shop fabricating steel frames for industrial buildings: July 1919 to Feb. 1923 Civ. Engr., Elec. Bond & Share Co., New York City, designed and supervised design of steam power stations and hydro-electric power plants, also had charge of construction of power stations. (Active practice 5.7 years: Res. Ch. 3.9: Design 1.8). Refers to K. Berle, A. C. Clogher, L. R. Cobb, V. F. Hammel, W. S. Merrill, H. Miller.

- SCHUEERMANN, ARTHUR—1016 Mayo Bldg., Tulsa, Okla.—(Age 28. Born St. Louis, Mo.)—June 1911 to June 1914 Draftsman, Mesker Bros. Iron Co., St. Louis, Mo., 449 detailing structural steel: June 1914–Aug. 1917 and July–Oct. 1919 Draftsman and Estimator, Victor Iron Works, designing, estimating and detailing structural and ornamental iron work, often in charge of erection: Feb. 1918 to July 1919 Draftsman, Constr. Dept., St. Louis Water Works, detailing structural and mechanical work in connection with power plant: July 1920 to Nov. 1920 Draftsman with Johnson & Benham, Cons. Engrs., Kansas City, Mo., detailing, plans, profiles for roads and streets, and sewers: Dec. 1920 to Nov. 1922 Draftsman, C. E. Smith & Co., Cons. Engrs., St. Louis, Mo., detailing, architectural, structural, maps: at present in Eng. Dept., Roxana Petroleum Corporation, Tulsa, Okla. (Active practice 10.3 years). Refers to W. L. Benham, G. Blaauw, W. S. Dawley, A. L. Mullergren, H. W. Nighswonger, C. E. Smith,

- SCHUERMAN, WILLIAM AUGUSTUS—540 West 7th St., Cincinnati, Ohio—(Age 23. Born Clinton, Mass.) (B. S. in Civ. Eng., Worcester Pol. Inst., 1921.)—June to Aug. 1919 450 Map Draftsman, Rural Cemetery Corporation: June to Sept. 1920 Chf. of Party for J. A. Westcott, Binghamton, N. Y., on topographic survey: June 1921 to July 1922 Draftsman and Designer, New England Power Co., on hydro-electric structures, dams, power-houses, reinforced concrete, steel: July 1922 to date Designer, Cleveland, Cincinnati, Chicago & St. Louis Ry. Co., on steel bridge crossing Ohio River at Louisville, Ky. (Active practice 1.9 years: Res. Ch. 0.2). Refers to W. M. Bassett, A. W. French, H. C. Ives, C. A. Paquette, E. A. Van Deusen.

- SCOTT, FREDERICK WILLIAM—Care, C. H. Walker & Co., Caixa Postale 39, Natal, Rio Grande do Norte, Brazil—(Age 36. Born Omagh, Ireland.) (A. B., Royal Univ. of 451 Ireland, 1908; B. E., Queens Coll., Belfast, and Royal Univ. of Ireland, 1908; M. E., Queens Univ. of Belfast, 1910.)—July to Nov. 1908 Office and Field Asst. to Wm. Scott, (1) C. E., on farm survey work: Feb. 1909 to Aug. 1911 Eng. Asst. to County Surveyor, Londonderry County, office work, design of highway bridges and works and county buildings, supervision of road and bridge work, etc.: Oct. 1911 to Nov. 1917 Asst. Engr., South African Govt. Ry. Administration, engaged as follows: Oct. 1911 to Sept. 1912 and Oct. to Nov. 1912 on preliminary survey, location, design and start of construction of works, Stuartstown-Union Bridge; Sept. to Oct. 1912 on Malenge-Franklin Ry. construction (relieving); Nov. 1912 to July 1913 on survey, staking out and design of works, main line deviations, Natal; Aug. 1913 to Oct. 1916 in charge of 10½ mile section of heavy construction, Maritzburg Rietspruit main line deviation; Oct. 1916 to April 1917 Engr. in charge of party on survey and design of works on Merrivale-Nottingham Road main line deviation; May to Nov. 1917 on Cato Creek New Works, Engr. in charge of construction, new harbor, railway yards, goods sheds, etc., Durban Harbor, also of main line washaway reconstruction: Dec. 1917 to April 1919 with Johannesburg Consolidated Investment Co. as Asst. to Chf. Surveyor of Barnato Group of Mines in office and Asst. Surveyor on Van Ryn Deep Gold Mine: April to July 1919 Chf. Constr. Engr., Ry. Constr. Co., Johannesburg (no construction done, office work only): Aug. 1919 to Sept. 1922 with Union of South Africa Irrigation Dept. as follows: Aug. to Oct. 1919 Asst. Engr., Hartbeestpoort Irrigation Works, Engr. in charge of surveys; Oct. 1919 to Sept. 1920 Asst. Engr., Southern Transvaal Circle Irrigation Dept., Asst. to Circle Engr. on survey and design of minor irrigation schemes; Oct. 1920 to Feb. 1921 Professional Asst. to Director of Irrigation, in charge of design office for department and of preparation of all major schemes; March 1921 to Sept. 1922 Res. Engr., Hartbeestpoort Irrigation Works, in charge of construction of concrete dam, headworks and canals: Sept. 1922

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to date Agt., C. H. Walker & Co. of London, in charge of construction of Gargalheira and Parelhas concrete dams, State of Rio Grande do Norte, Brazil. (Active practice 13.9 years: Res. Ch. 6.9: Design 2.3). Refers to A. Culver. (Applies in accordance with Sec. 1, Art. 1, of the By-Laws.)

SEELIG, MILTON—824 Ave. T, Brooklyn, N. Y.—(Age 24. Born Brooklyn, N. Y.) (C. E., Pol. Inst. of Brooklyn, 1921.)—June–Sept. 1918 Transitman and Rodman, J. G. White 452 Eng. Corporation: June–Sept. 1919 Rodman, Lawyers Title & Trust Co.: June–Sept. 1920 Jun. Asst., Transit Constr. Comm.: June 1921 to date Foreman and Estimator, Turner (1) Bros., Inc., excavation of cellars. (Active practice 1.7 years). Refers to H. R. Codwise, W. Ginsberg, H. P. Hammond, C. W. Hudson, E. J. Squire.

SMITH, STEWART TRACEY—35 Warren St., New York City—(Age 32. Born Harmon, Ill.) (B. S., Univ. of Ill., 1915.)—June 1915 to March 1916 Carpenter Foreman on con- 453 crete factory building construction, Aberthaw Constr. Co., Boston, Mass. (3 months), and T. J. Pardy Constr. Co., Bridgeport, Conn. (6 months): March to Oct. 1916 Drafts- (1) man with Fletcher-Thompson, Inc., Bridgeport, Industrial building work: Oct. 1916 to date Architectural Engr. with Van R. H. Greene, New York City, in charge of all build- ing work, consisting of design and superintendence of construction of cold-storage, ice- making, ice-cream making, fish-freezing and allied plants; has had full charge of over \$10 000 000 worth of work; at present in charge of \$1 000 000 cold-storage plant in Washington, D. C. (Active practice 7.8 years: Res. Ch. 6.5: Design 6.5). Refers to H. C. Atwater, C. A. Cummins, T. H. Files, A. H. Hartman, E. A. Lambert, D. H. Sawyer, W. A. Slater.

SPICER, HENRY LEWIS—201 Cameron Bldg., Waco, Tex.—(Age 36. Born Norwalk, Conn.)— 1903 to 1908 Draftsman for M. L. Waller (3 years) and for Sanguenett & Staats 454 (2 years), Archts., structural and architectural drafting on commercial buildings, schools, churches, etc.: 1908 to 1914 (6 years) Designer and in charge of drafting (15) room for Roy E. Lane, Archt., structural and architectural design on commercial buildings, schools, state buildings, etc.: 1914 to 1915 (1 year) in private practice at Waco, Tex., structural design of bridges and buildings: 1916 to 1917 (1 year) Designer on steel mill buildings, retaining walls, craneways, etc., Westinghouse, Church, Kerr & Co.: 1917 to 1918 (1 year) Designer in charge of drafting room, Remington Arms U. M. C. Co., plant layout and industrial building work: 1918 to 1920 (2 years) Designer and Field Supt., Fletcher Thompson Co., design and charge of construction of industrial buildings, factories, etc.: 1920 to date (2 years) in private practice at Waco, structural design of bridges and buildings. (Active practice 18 years: Res. Ch. 10: Design 10). Refers to J. H. Brillhart, P. Clow, C. H. Harrison, E. A. Lambert, O. H. Lang, R. J. Potts.

STAPLES, MERTON TOWNE—1202 San Antonio St., Austin, Tex.—(Age 24. Born Danvers, Mass.) (B. C. E., Northeastern Univ., 1921.)—April 1919 to April 1921 (part of time 455 while at college) Rodman with County Engr. (April 1919 to Sept. 1920), Chainman, Boston & Maine R. R. (Sept. to Dec. 1920), and Concrete Detaller for Monks & Johnson, (15) Archts., detailing steel in beams (Jan. to April 1921): July 1921 to April 1922 Transi- sman, Massachusetts Highway Dept.: April 1922 to date Field Engr., Pitometer Co., making water waste surveys. (Active practice 1.7 years: Res. Ch. 0.1). Refers to G. B. Davidson, C. S. Ell, R. R. Evans, L. C. Hough, P. C. Nash.

STEVENSON, JOHN HYMERS—551 Stuart Bldg., Seattle, Wash.—(Age 36. Born Irvine, Scotland.)—1902 to 1907 (5 years) articulated pupil, and 1907 to 1908 (1 year) Chf. Asst. 456 with P. Campbell Hart, Municipal Engr., Glasgow, Scotland: 1904 to 1908 attended selected classes at Technical Coll., Glasgow: 1908 to 1909 (6 months) Instrumentman, (12) New River Coal Co., Glen Jean, W. Va.: 1909 (2 months) Leveler, Oregon Trunk Line: 1909 to 1913 (3½ years) Asst. Designer with Purdy & Henderson, Seattle, and Van- couver, B. C.: 1914 (6 months) Estimator, Pearson Constr. Co., Seattle: 1914 to 1917 (2½ years) with various Engrs., A. M. Young, Henry Blittman, John L. Hall, Col. Powell, and others, Seattle: 1917 to 1919 (2 years) Structural Engr., Skinner & Eddy Ship Yard Corporation, Seattle, in responsible charge: 1919 to 1920 (6 months) Asst. with A. M. Young, Structural Engr., Seattle, in responsible charge: 1920 to date (2½ years) in private practice associated with John L. Hall, Seattle. (Active practice 18.2 years: Res. Ch. 2.5). Refers to F. H. Fowler, J. L. Hall, A. O. Powell, F. F. Sinks, M. O. Syllaason, W. F. Way.

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STRATTON, DAVID VINCENT—99 Claremont Ave., New York City—(Age 38. Born Altoona, S. Dak.)—1905 to 1910 (5 years) Asst. to Div. Engr., Pacific Div. Dams and
457 Dredging, Panama Canal, handling administration matters: 1910 to 1912 (2 years) Asst. Supt. of Constr., oil refineries, Union Oil Co. of California: 1912 to 1913 (1½
(1) years) Service Mgr., Natomas Co., Sacramento, Cal., in charge of administration matters on gold dredging, rock crushing and land reclamation: 1913 to 1915 (2 years) Works Mgr., Metals Production Equipment Co., Springfield, Mass., on construction and operation, Grey Iron Foundry and Brass Mill: 1915 to 1917 (2 years) Production Mgr., Pyrene Mfg. Co., development of intensive production: 1917 to 1920 (3 years) Pres., D. V. Stratton, Inc., especially on putting shipyards on production basis, taking in design and redesign of plant: 1920 to 1921 (1 year) Asst. European Mgr., U. S. Shipping Board, administration, surveys of repair plants in Europe: 1921 to 1923 (2 years) Mgr., Business Development, Morse Dry Dock & Repair Co., Brooklyn, N. Y., development new lines, including design and promotion of Morse Oil Burning System. (Active practice 18.3 years: Res. Ch. 10.5: Design 9). Refers to C. T. Chenery, W. G. Comber, E. Oliver, W. J. Spalding, S. B. Williamson.

STUMP, ELMER LEONARD—Three Rivers, Cal.—(Age 31. Born Santa Rosa, Cal.)—March 1910 to Jan. 1911 Rodman and Chainman, West Side Lumber Co.: Jan. 1911 to Jan. 458 1912 Rodman and Chainman, Sonoma County, Cal.: April 1912 to Oct. 1913 Chainman and Topographer, Grand Trunk R. R., and Northern Branch, Pacific & Great Eastern:
(11) Jan. 1914 to June 1917 Instrumentman, Matthew Constr. Co., preliminary railroad location, roads and subdivision: June 1917 to June 1918 Instrumentman and Chf. of Party, general refinery, surveying and engineering, Standard Oil Co. Refinery, Richmond, Cal.: June 1918 to Jan. 1919 Private and Commissioned Officer, U. S. Army (heavy artillery): Jan. to Sept. 1919 Chf. of Party, Standard Oil Co., general refinery engineering, railroad location and construction, laying out construction, buildings, roads and sewers: Sept. 1919 to Nov. 1920 Chf. of Party and Res. Engr., highway location, concrete highway construction, Sonoma County: Dec. 1920 to date Res. Engr., concrete highway construction, California Highway Comm. (Active practice 11.7 years: Res. Ch. 3.2). Refers to L. Aldrich, S. T. Corfield, T. E. Stanton, Jr., A. J. Wagner, J. B. Woodson.

SUZUKI, EDWARD YOSHIHIDE—345 West 71st St., New York City—(Age 33. Born Tokio, Japan.) (B. Ry. Eng., Tokio Ry. School, 1912.)—April 1911 to Oct. 1913 Asst. 459 Engr., Dept. of Power Plant, Sunzu Elec. R. R. Co.: Oct. 1913 to Nov. 1921 Asst. Engr., Dept. of Constr., Imperial Govt. R. R., head office (2 years), in responsible charge at
(1) Karasuyama New Extension 5 years as Chf. of field office: Nov. 1921 to Feb. 1922 Engr., Dept. of Constr., Tokio Underground Rys. Co., Ltd., on design: Feb. 1922 to date Cons. Engr., Tokio Underground Rys. Co. (Active practice 10.9 years: Res. Ch. 1.2: Design 1.8). Refers to A. Carr, W. J. Douglas, Y. Hatta, J. R. Monaghan, R. Ridgway, H. D. Winsor.

TAYLOR, ASHLEY BRECKINRIDGE—3406 Gillham Rd., Kansas City, Mo.—(Age 33. Born in Douglas County, Nebr.)—Completed 2 years of Eng. course, Univ. of Illinois: 460 July 1909 to Jan. 1911 Axeman, Rodman and Instrumentman, Herrin & Southern Ry. (Chicago, Burlington & Quincy R. R.): March 1911 to June 1914 Rodman and Instru-
(14) mentman, Kansas City Terminal Ry.: June to Aug. 1914 Instrumentman, Kansas City Southern Ry.: Aug. 1914 to June 1916 Computer and Recorder on railroad valuation in Texas, Louisiana, Oklahoma, Kansas, Missouri, Iowa and Minnesota for Div. of Valuation, Interstate Commerce Comm.: June 1916 to Aug. 1921 Asst. Engr., maintenance and execution of a building program (\$2 000 000 to \$3 000 000) for Kansas City Stock Yards and Kansas City Connecting Ry.: Aug. 1921 to date Owner's Representative on \$4 000 000 power-house extension, in charge of Valuation Dept., completing appraisal of electric distribution system, Kansas City Power & Light Co. (Active practice 13.5 years: Res. Ch. 6.7: Design 0.5). Refers to W. L. Breckinridge, A. C. Everham, J. V. Hanna, L. F. Reynolds, C. E. Smith, M. P. Taylor, E. P. Weatherly.

THOMAS, BURTIS PAUL—La Porte, Ind.—(Age 38. Born La Porte, Ind.)—Aug. 1906 to July 1907 Chainman, Rodman and Leveler under Frank Scholes, C. E., Ft. Wayne, Ind.: 461 April to Sept. 1908 and May to Dec. 1910 Asst. City Engr., La Porte, Ind.: Dec. 1908 to May 1909 with Martin & Paton, on field and map work: May 1909 to May 1910 with
(9) Co-operative Constr. Co., on construction and field engineering on electric railway (under Thos. G. Hamilton, C. E.): Jan. 1911–Dec. 1914 County Surveyor and Engr., La Porte

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County, Ind., prepared survey, plans, specifications, estimated costs and supervised to completion over 156 miles of macadam roads (cost over \$791 000), many highway bridges (spans up to 130 ft.), many drainage dredge ditches, including complete survey and plan of Kankakee River in St. Joseph, La Porte and Starke Counties: Jan. 1915 to May 1916 private surveying and engineering work: May 1916 to Sept. 1917 Co. Engr., National Home Realty Co. of Indianapolis, Ind.: Jan. 1918 to date City Engr. of La Porte, on brick pavement (cost over \$27 750), sheet asphalt pavement, sewers (cost over \$35 000), etc.; designed a well (reinforced concrete, diameter, 60-ft., sunk during construction to depth of 25 ft.): registered Civ. Engr., State of Indiana. (**Active practice 15.2 years: Res. Ch. 13.4: Design 12.2**). Refers to J. B. Hittell, D. H. Maury, W. S. Moore, R. Seely, E. C. Shoecraft.

THOMAS, CARL FRANCIS—1686 Alameda Drive, Portland, Ore.—(Age 32. Born Leadville, Colo.) (B. S. in Civ. Eng., Univ. of Ore., 1914.)—May to Sept. 1910 Chainman, 462 and July to Sept. 1912 Pile-Driving Inspector on dock construction, Spokane, Portland & Seattle Ry. Co.: July 1914 to March 1923 with S., P. & S. Ry. Co. as follows: July (12) 1914 to June 1915 rod and instrument work; June 1915 to June 1917 Draftsman in office of Chf. Engr., station plats, profiles, alignment maps, track layouts, design of ordinary buildings and roadway structures, office records and reports; June 1917 to June 1918 Bridge Draftsman in office of Chf. Engr., design of timber and pile bridges, Howe trusses, plate girders, reinforced concrete culverts, concrete abutments, stresses in railroad bridges; June 1918 to May 1920 and Dec. 1920 to March 1923 Asst. Engr. of Bridges, about one-half of time in office on design of bridge and building repairs and construction, material bills, estimates, annual budget items, checking plans and specifications, etc., and one-half of time on field work, supervision of bridge maintenance and construction (reporting to Bridge Engr.); May to Dec. 1920 Asst. Engr. on investigation of consolidated terminal for all lines entering Portland, Ore. (reporting to Chf. Engr. of Company), traffic studies, zone mapping, tentative yard layouts, property adjustments on proposed terminal, report on operating expenses and fixed charges apportioned to railroads tentatively in proposed consolidation (valuation of property involved \$18 000 000). (**Active practice 8.6 years: Res. Ch. 4.7: Design 3.6**). Refers to R. A. Klein, C. L. McKesson, S. Murray, L. K. Needham, V. H. Reineking, S. H. Sims, O. E. Stanley.

VAN SICKEL, EDWARD LEE—4267 Fifth Ave., Pittsburgh, Pa.—(Age 22. Born Casselman, Pa.) (B. S. in Civ. Eng., Pa. State Coll., 1922.)—July 1922 to date Field Engr., 463 W. T. Grange Constr. Co., Pittsburgh, Pa., on construction of New University Club and National Union Fire Insurance Co. buildings; engineering work pertaining to building (6) construction, also assisting with timekeeping and cost accounting. (**Active practice 0.7 year: Res. Ch. 0.7**). Refers to J. M. Baldwin, P. B. Breneman, N. M. Hench, F. Holmes, R. L. Sackett, E. D. Walker.

WARD, JOSEPH AUGUSTUS—Pompton Plains, N. J.—(Age 30. Born Lakewood, N. J.) (B. Sc. in Civ. Eng., Rutgers Coll., 1914.)—Aug. 1914 to June 1917 Eng. Asst., and 464 (after Jan. 1916) Asst. Engr., Water Dept., East Orange, N. J., designing and supervising construction of additions to pumping plant and extension of pipe lines (20 miles (1) laid): June 1917 to June 1919 1st Br., N. J. Engrs., which later became 104th Engrs., 29th Div., U. S. Army, 1 year as Master Engr., Jun. Grade, in charge of topographical drafting room on survey, Camp Dix and Camp McClellan; 1 year 2d Lieut., A. E. F.: Aug. 1919 to date with North Jersey Dist. Water Supply Comm., until Jan. 1921 as Transitman, field and office work, including base traverses and topographical development of Wanaque Reservoir, Wanaque Project; then Asst. Engr., field and office work, including hydraulic investigations, testing of materials and construction in connection with Wanaque Dam foundations (\$1 500 000 contract); since Nov. 1922 Asst. Engr. in field charge (reporting to Asst. Chf. Engr.) of \$1 000 000 tunnel contract. (**Active practice 8.5 years: Res. Ch. 4.1: Design 1**). Refers to C. J. Cragmille, N. C. Holdredge, A. H. Pratt, A. A. Reimer, A. L. Sherman, M. R. Sherrerd, H. B. Wheatcroft, Jr.

WHITE, THOMAS WILLIAM—45 Nassau St., New York City—(Age 47. Born McKeesport, Pa.) (B. S. in Eng., Univ. of Dallas, 1919.)—1889 to 1901 (12 years) studied under 465 Taylor, Romine & Scott, McKeesport, Pa.: 1901 to 1903 (2 years) member of firm, Robbins & White, at McKeesport: 1903 to 1909 (6 years) City Engr. of McKeesport: (1) 1910 to 1915 (4 years) Chf. Engr. for White & Sinclair, made surveys and designed and built pumping stations, pipe-lines, tank farms, etc.; made special investigation trip to Mexico for firm: 1916 had charge of pipe-lines and production, Pierce Oil Co.: 1917 with Sinclair Oil Corporation, took special expedition of geologists, engineers, etc., into

FOR ADMISSION

Costa Rica and Panama: 1918 Head of Sinclair Gulf Oil Corporation at Houston, Tex.; came to New York as co-ordinating Engr.; 1919 made special trip to England, Belgium, France and Germany for Sinclair Consolidated Oil Corporation: 1922 Chf. Engr., Mammoth Oil Co., in Casper, Wyo., designing and building steel storage reservoirs, pipelines, etc., and made complete survey of Naval Reserve No. 3; at present Chf. Engr., in charge of fuel oil installations being built for U. S. Govt., at Portsmouth, N. H., Melville, R. I., Governor's Island, Boston Harbor and Yorktown, Va., in accordance with agreement between U. S. and Mammoth Oil Co. (Active practice 17 years: Res. Ch. 15: Design 12). Refers to H. S. Bell, A. A. Cohill, J. S. Hess, C. L. Parmelee, A. Potter.

WOLF, LOUIS—550 Big Bend Road, Webster Groves, Mo.—(Age 38. Born Bonne Terre, Mo.)—1905 completed R. R. Eng. course, International Correspondence Schools: 1906 to 1908 (2 years) Res. Engr., Spokane, Portland & Seattle Ry., construction of lines in cliffs of Snake River in Washington State; two lines with separating grades: 1909 (10) to 1913 with Missouri Pacific R. R., 1½ years handling construction of grading bridges, tracks, erection of buildings, etc., for facilities of new division terminal at Falls City, Nebr., and 1½ years Div. Engr. on 10-mile division of construction of line in swamp lands between Marianna, Ark., and Memphis, Tenn.: 1914 to 1915 (6 months) Engr., Illinois Highway Comm., on construction of concrete roads and highway bridge: 1916 to 1919 (3 years) Asst. Engr., Valuation Dept., M. P. R. R., preparing pre-inventory data for Interstate Commerce Comm. Bureau of Valuation inventory; Carrier's Representative or Pilot with I. C. C. field parties making inventory on M. P. R. R., compiling cost data: 1919 to 1920 (1 year) Office Engr., St. Louis Southwestern Ry., handling office work for Engr. M. of W. and Chf. Engr.: 1920 to 1921 (1 year) Office Engr., Louisiana & Arkansas Ry.; Asst. to Chf. Engr.: 1921 to date (2 years) Asst. Engr., Valuation Dept., M. P. R. R., St. Louis, Mo., in charge of force compiling data and records for Federal valuation of Company, also reviewing and checking I. C. C. Bureau of Valuation engineering reports on Company and its subsidiary companies; part of time in offices of I. C. C. at Washington, D. C. (Active practice 12.5 years: Res. Ch. 12.5). Refers to B. L. Brown, W. J. Burton, T. H. Crosswell, F. W. Green, E. A. Hadley, W. H. Vance.

WOLFE, THOMAS FRANCIS—165 E. Erie St., Chicago, Ill.—(Age 32. Born Chicago, Ill.) (B. S., 1912, and C. E., 1921, Armour Inst. Tech.)—1912 to 1913 (1 year) Designer, 467 Chicago Ry. Equipment Co., structural and mechanical designing: 1913 to 1917 (4 years) Rodman, Jun. Engr., Bureau of Eng., Chicago, in charge of water survey and construction work: 1917 to 1921 (4 years) Asst. Engr. of water-pipe extension; Asst. in charge of water distribution having to do with both design and construction: 1921 to date (2 years) Research Engr., Cast-Iron Pipe Publicity Bureau, research work and engineering advice on water distribution. (Active practice 11 years: Res. Ch. 8: Design 7). Refers to W. W. DeBerard, J. Ericson, L. D. Gayton, G. C. D. Lenth, A. E. Phillips.

WOOLSEY, LEON HAROLD—Florence, Ariz.—(Age 33. Born New Paltz, N. Y.) (C. E., Lafayette Coll., Easton, Pa., 1912.)—Dec. 1912 to July 1916 Jun. Engr., U. S. Reclamation Service, at Phoenix, Ariz.: Aug. 1916 to date in complete charge of irrigation from Gila River in Pinal County, Ariz., operation and maintenance of canals, structures, etc.; (11) also in charge of design and construction of new work (except that of U. S. I. S.). (Active practice 10.1 years: Res. Ch. 6.6). Refers to J. G. Bailhache, S. K. Baker, A. F. Harter, W. W. Lane, T. Maddock, H. S. Reed, G. E. P. Smith.

ZIBILICH, ANTHONY MICHAEL—520 Spain St., New Orleans, La.—(Age 25. Born New Orleans, La.) (B. E., Tulane Univ. of La., 1918.)—May to Sept. 1917 Draftsman, 469 Louisiana Ry. & Navigation Co., Shreveport, La.: June to Sept. 1918 Draftsman, Board of Advisory Engrs., New Orleans Public Belt R. R. Comm., New Orleans, La., on (15) terminal facilities: Sept. 1918 to Feb. 1919 Ship Draftsman, Bureau of Constr. and Repair, Navy Dept., Washington, D. C., with Design Sec., on preparation, checking and correction of plans: Nov. 1919 to date with U. S. Lighthouse Service in office of Supt. of Lighthouses, New Orleans, until May 1920 as Architectural and Structural Steel Draftsman on engineering construction, maintenance, estimates and detailing; since then Asst. Supt. on design, plans and specifications on engineer construction, maintenance and repairs to boilers, machinery and equipment of ships, including specifications for ship repairs, inspection of materials of construction and creosoting (superintendence of repairs, estimates, investigations, purchasing and contracts, all under direction of Supt. of Lighthouses). (Active practice 4 years: Res. Ch. 2.8: Design 1.2). Refers to J. S. Conway, D. Derickson, W. B. Gregory, F. A. Muth, G. R. Putnam.

FOR TRANSFER

FROM THE GRADE OF ASSOCIATE MEMBER

BATES, JOHN SCHUYLER, Assoc. M. Am. Soc. C. E.—383 College Ave., Fresno, Cal.—(elected March 1, 1910.) (Age 45. Born Monmouth, Ill.) (B. S., Univ. of Ill., 1902.)—470 June to Sept. 1898 Rodman for City Engr. of Monmouth, Ill.: June 1899 to Sept. 1900 Chairman, Rodman, Draftsman and Instrumentman, June to Sept. 1901 Tracer, and (13) June 1902 to May 1905 Draftsman, Chicago, Burlington & Quincy R. R.: May 1905 to Jan. 1911 City Engr. of Monmouth, had full charge of plans and superintending construction of pavement, sewers and sidewalks; considerable drainage engineering in surrounding country; also Location Engr. for two electric railway surveys for Rock Island Southern Ry.: Feb. 1911 to Feb. 1912 (about) Engr., Fresno, Coalinga & Tidewater Co., making preliminary surveys from Fresno to Monterey (150 miles): Feb. 1912 to date in private practice of civil engineering at Fresno: since about Dec. 1912 City Engr., Kingsburg, Cal., work including sanitary and industrial sewerage system extensions with settling tank, sprinkling filter (cost \$28 000); pavement constructed (cost \$194 800) and under way (cost about \$40 000): since Jan. 1918 also City Engr., Selma, Cal., work including pavement constructed (cost \$165 400), industrial and sanitary sewerage system extensions with settling tank (cost \$85 200): since Jan. 1919 also City Engr., Reedley, Cal., work including construction of pavements (\$541 300), sidewalks (\$56 000), industrial and storm sewer (\$42 500); also pavement plans prepared (estimated cost \$206 000): June 1921 to date also City Engr., Delano, Cal., work including sanitary and storm sewerage systems (under construction, cost \$119 500). (Active practice 21.9 years: Res. Ch. 16.7: Design 16.7). Refers to P. F. Brown, S. A. Chapman, C. R. Fickes, L. J. Hotchkiss, H. A. Roberts, E. J. Schneider, J. B. Woodson.

BENEDICT, RALPH ROBERT, Assoc. M. Am. Soc. C. E.—Div. of Highways, Springfield, Ill.—(elected Junior May 28, 1912; Assoc. M. Nov. 12, 1913.) (Age 41. Born New 471 Marlboro, Mass.) (B. S. in Mine Eng., 1908, and C. E., 1915, Mo. Univ. School of Mines.)—July to Oct. 1898 Recorder, Missouri River Comm., War Dept., recording (8) survey notes on dike and revetment work on river improvements: June to Nov. 1901 Computer, Dawes Comm., Dept. of Interior, planetable surveys: June to Oct. 1905 Rodman, June to Oct. 1906 Transitman in charge of survey party, and June to Oct. 1907 Inspector on municipal construction, roads, pavements, walk, sewers and bridges, Board of Park Commrs., Kansas City, Mo.: June 1908 to June 1918 with same Commissioners as follows: June 1908 to Jan. 1910 Chf. Inspector, in charge of all construction, such as buildings, pavements, roads, sewers, bridges, etc.; Jan. 1910 to Sept. 1913 Engr. of Constr., Chf. of all survey and construction work and supervision of design; Sept. 1913 to April 1915 Acting Executive Officer, responsible for all office and field work covering construction and maintenance; April 1915 to June 1918 Asst. Supt. of Parks, responsible for all field work covering construction and maintenance of 70 miles of boulevards and 3 000 acres of park property: June 1918 to June 1920 Statistical Expert, Ordnance Dept., Washington, D. C., Head of Estimates and Requirements Unit of Artillery Div.: June 1920 to date Asst. to Chf. Highway Engr., Div. of Highways, State of Illinois, at Springfield, Ill., on reconnaissance surveys, new projects, general office administration. (Active practice 15.4 years: Res. Ch. 14.8: Design 11.2). Refers to L. R. Ash, R. C. Barnett, G. F. Burch, A. C. Everham, C. M. Hathaway, C. Older, B. H. Piepmeler, F. T. Sheets, F. Tarrant.

BENNETT, BOYD ANDERSON, Assoc. M. Am. Soc. C. E.—Charlottesville, Va.—(elected Oct. 11, 1920.) (Age 37. Born Linesville, Pa.)—2 years student, Denison Univ., 472 mathematics, civil engineering, etc.: 1906 to 1907 (1 year) Rodman, Lake Shore & Michigan Southern R. R.: 1907 (6 months) Asst. Engr., Conneaut, Ohio, in charge of (5) field work and construction: 1907 to 1909 (1 year) Field Engr., Pittsburgh & Conneaut Dock Co., in charge of field work, construction of docks, buildings, railroads and machinery erection: 1909 to 1911 (2 years) private work, engineering and construction, municipal work (in partnership): 1911 to 1913 (2 years) in builders' supply business: 1913 to 1918 (5 years) engineering contracting, municipal work: 1918 to 1919 (1 year) in France with Brown Hoist Machine Co. on erection of gantry cranes for U. S. Army: Feb. 1919 to Sept. 1920 Cons. Engr. for paving improvements, Eastern Paving Brick Mfg. Association: Sept. 1920 to Sept. 1922 Engr. and Director of Public Works, Lynchburg, Va., including all city improvements (approx. \$500 000 annually): Sept. 1922 to date City Mgr., Charlottesville, Va. (Active practice 16.5 years: Res. Ch. 13.5: Design 14). Refers to E. A. Beck, R. K. Compton, E. E. Duff, Jr., I. V. Huie, P. C. Painter, W. W. C. Perkins, L. H. Williamson.

FOR TRANSFER

ILSLEY, ARTHUR BENJAMIN, Assoc. M. Am. Soc. C. E.—18 Tremont St., Boston, Mass.—(elected Junior Feb. 28, 1899; Assoc. M. March 4, 1903.) (Age 50. Born Limerick, 473 Me.) (B. S., Dartmouth Coll., 1892; C. E., Thayer School of Civ. Eng., 1895.)—July 1892 to July 1893 Draftsman in office of A. B. Tower & Co., Mill Archts., Holyoke, (2) Mass.: June 1895 to Feb. 1896 Draftsman, Berlin Iron Bridge Co., East Berlin, Conn.: Feb. 1896 to Jan. 1900 Draftsman, Bridge Dept., New York, New Haven & Hartford R. R., New Haven, Conn.: Jan. 1900 to March 1904 Asst. Bridge Engr., Boston & Maine R. R., Boston, Mass.: March 1904 to Nov. 1922 with Southern Ry. Co., until Aug. 1909 as Asst. Engr., Bridge Dept., Washington, D. C.; then Engr. of Bridges, Washington, and after Feb. 1917 Engr. of Bridges, Lines East, Charlotte, N. C.: Nov. 1922 to date Cons. Engr., Rice & Ilsley, Inc., Boston. (Active practice 28.9 years: Res. Ch. 13.7: Design 10.1). Refers to E. M. Durham, Jr., R. Fletcher, O. E. Hovey, H. C. Keith, D. W. Lum, L. D. Rights, J. P. Snow.

MCCRORY, THOMAS GEORGE, Assoc. M. Am. Soc. C. E.—6048 First Ave., N. W., Seattle, Wash.—(elected Junior Dec. 1, 1908; Assoc. M. March 4, 1913.) (Age 40. Born Bel- 474 fast, Ireland.) (B. S. in Civ. Eng., Univ. of Wash., 1906.)—June 1906 to Aug. 1909 with International Contract Co., Seattle, Wash., until Oct. 1906 as Draftsman and Estimator; (12) then Asst. Engr. in charge of all designing, detailing and estimating on bridges and structural work, including fixed and draw bridges, reinforced concrete and heavy dock and wharf work: Aug. 1909 to Feb. 1911 in Bridge Dept., Oregon Short Line R. R. Co., and Southern Pacific Co., 4 months as Instrumentman, then Gen. Bridge Inspector, in direct charge of erection and inspection of all bridges (under construction and in operation), including eight 60-ft. plate girder spans, replacing a 178-ft. through pin-connected span with 103-ft. through plate girder span, two 65-ft. single-track girder spans with 65-ft. double-track girder spans, and three 168-ft. truss spans with six 84-ft. girder spans (all under traffic), and erecting two 60-ft., three 65-ft. and one 70-ft. girder spans: Feb. 1911 to Oct. 1914 with International Contract Co., until Aug. 1911 as Asst. Chf. Engr. in charge of general contract work; then Engr. in charge on erection 11th St. Bridge, Tacoma, Wash., Waddell and Harrington type lift bridge (total cost \$600 000), also foundations for Northern Pacific Ry. Co. bascule bridge over Lake Wash- ington Canal, Seattle; after Aug. 1913 Chf. Engr., completed Pier No. 5, U. S. Navy Yard, Bremerton; placed 400 000 cu. yd. in 12-mile riprap seawall for N. P. Ry. Co.: Nov. 1914 to March 1915 Supt. for J. M. Clapp, Seattle, placing extra riprap on Pt. Defiance Line for N. P. Ry. Co.: March 1915 to March 1916 Designing Engr. for C. E. Fowler, Cons. Engr., Seattle, on several bridge projects, including 325-ft. draw span, 118-, 185-, 340- and 360-ft. fixed spans; making comparative designs for 700-ft. river crossing in steel arch, reinforced concrete arch and suspension bridge designs: March to May 1916 designing auxiliary power schooners for Jos. Sloan, Naval Archt.: May 1916 to April 1917 Res. Engr. under C. E. Fowler, Cons. Engr. for Standard American Dredging Co. on dredging (6 miles) Lake Washington Ship Canal, Seattle: April 1917 to date with King County, Wash., until Jan. 1921 as Bridge Engr. in charge of all bridge design and construction, twelve steel bridges, four reinforced concrete arches, two ferry landings and an industrial dock (cost \$500 000); inspection and maintenance on nine hundred bridges; since Jan. 1921 Maintenance Engr. in charge of work on main gravel and paved roads, including 190 miles of gravel roads, 110 miles of concrete roads, and 40 miles brick road (annual cost of maintenance \$250 000). (Active practice 16.6 years: Res. Ch. 15: Design 8). Refers to T. R. Beeman, J. M. Clapp, C. E. Fowler, F. H. Fowler, A. H. Fuller, C. C. More, A. W. Sargent.

MERRIMAN, RICHARD MANSFIELD, Assoc. M. Am. Soc. C. E.—600 Walnut St., Kansas City, Mo.—(elected Junior Jan. 3, 1907; Assoc. M. Jan. 17, 1916.) (Age 39. Born 475 Bethlehem, Pa.) (C. E., Lehigh Univ., 1906.)—June 1900 to Sept. 1901, Aug. 1902 to Feb. 1903, June to Sept. 1903 and June to Sept. 1904 Chainman, Rodman and Leveler, (14) Baltimore & Ohio R. R. Co.: June 1906 to Jan. 1909 Leveler, Transitman and Res. Engr. on construction of low-grade freight line, Erie R. R. Co.: March to Nov. 1909 Chf. Engr., R. H. Sherwood & Son, Contrs., located 13 miles of railway in Canada and designed structures for an amusement park: Dec. 1909 to May 1910 Res. Engr., Erie R. R. Co., on station relocation and improvements: May 1910 to July 1911 with Hering & Fuller, Cons. Edgrs., on design of water filtration plants: July 1911 to July 1914 with Govt. of Porto Rico, as Engr. in charge of municipal work, having charge of all work for seventy municipalities of the island; designed over fifty water supply and sewerage systems and constructed about thirty of these: July 1914 to Feb. 1916 in private prac-

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tice, assisted in several litigations involving engineering problems; general consulting practice; revised Merriman's "Elements of Sanitary Engineering": Feb. 1916 to May 1922 Asst. to Chf. Engr. and (last 1½ years) Chf. Engr., MacArthur Bros. Co., Engrs. and Contrs., prepared bids on many millions of dollars of construction work; designed some work for foreign countries and located a railway in South America; during war assisted in construction of about \$35 000 000 worth of work: Nov. 1922 to Jan. 1923 with Fuller & McClintock, Cons. Engrs., on design of filtration plant: Feb. 1923 to date Chf. Engr. for Fuller & Maitland, Engrs., for new water supply systems for Kansas City, Mo. (Active practice 17.8 years: Res. Ch. 9.4: Design 7.6). Refers to J. W. Beardsley, G. W. Fuller, F. C. Hitchcock, C. W. Hudson, J. R. McClintock, A. Maitland, Jr., F. L. Stuart.

NIXON, HARRY STILLWELL, Assoc. M. Am. Soc. C. E.—Omaha, Nebr.—(elected Oct. 14, 1919.) (Age 35. Born Shambaugh, Iowa.) (B. S. in Civ. Eng., Univ. of Nebr., 1910.)—476 June 1910 to April 1912 Asst. Engr. for City of South Omaha, Nebr., in charge of grading, paving and sewers: July 1912 to Feb. 1917 Asst. Engr., Metropolitan Water (14) Dist., Omaha, in charge of water-works construction, pipe lines, two reservoirs (12 000 000 and 15 000 000 gal.), pumping equipment and boilers: Feb. 1917 to March 1920 Asst. Engr., Union Pacific R. R., in charge of water service construction, consisting of pipe-lines, reservoirs, filtration plants and pumping stations: March 1920 to date member of firm, Prince-Nixon Eng. Co., Cons. Engrs., Omaha. (Active practice 12.4 years: Res. Ch. 8.5: Design 6.1). Refers to A. C. Arend, G. L. Campen, H. E. Cotton, H. V. Knouse, G. T. Prince, R. N. Towl, J. C. Wonders.

SEWARD, OSCAR A., Jr., Assoc. M. Am. Soc. C. E.—Amarillo, Tex.—(elected March 14, 1916.) (Age 36. Born Independence, Tex.) (B. S. in Civ. Eng., Tex. Agri. and Mech. 477 Coll., 1907.)—June-Aug. 1905 Chairman and Instrumentman with County Surveyor, Washington County, Tex.: July-Sept. 1906 Rodman, Texas Central R. R.: June and (15) July 1907 Levelman, Topographer and Asst. Chf. of party on preliminary survey, Brenham, Brazos Valley & Gulf R. R.: Aug. 1907 to May 1912 with Gulf Interests of Texas, Oklahoma and Louisiana, as Draftsman, Chf. Draftsman, Office Engr., Field Engr. and Asst. Chf. Engr. on plans, specifications for oil and steam pumping stations, including lighting systems, reservoirs, warehouses, cottages, etc.; plans and specifications for machine shops, etc., surveys, etc.: June 1912 to April 1917 Special Sewerage Engr., Asst. City Engr., and Res. Engr., Wharf and Dock Comm., City of Beaumont, Tex.; designed and constructed sewers, pavements, bridges, reclaimed land, built wharves, steel sheds, erected cranes, made appraisals; Harbormaster: May to Aug. 1917 Student, Officers' Training Camp, Camp Stanley, Tex., and Ft. Leavenworth, Kans.: Sept. 1917 to July 1919 Capt., E. O. R. C., 315th Engrs., 90th Div., training troops at Camp Travis, Tex. (Sept. 1917 to May 1918), in France and England (June to Nov. 1918) and with Army of Occupation, Germany (Dec. 1918 to June 1919): Aug. 1919 to Aug. 1921 Chf. Engr., Wharf and Dock Comm., and City Engr., Beaumont, Tex.; Industrial Engr., Chamber of Commerce, Beaumont, general engineering work: Sept. 1921 to date Dist. Mgr., Nagle, Witt & Rollins Eng. Co., general and consulting engineering work, highways, bridges, design and construction. (Active practice 15.7 years: Res. Ch. 12.5: Design 2.7). Refers to R. M. Dunham, G. G. Edwards, C. K. Horton, A. C. Love, J. C. Nagle, E. E. Swope, R. J. Windrow, J. F. Witt.

SPRIGG, CARROLL CRAWFORD, Assoc. M. Am. Soc. C. E.—40 Rector St., New York City—(elected Sept. 10, 1918.) (Age 38. Born Chambersburg, Pa.) (C. E., Cornell 478 Univ., 1907.)—July to Sept. 1904 and June to Oct. 1905 Rodman, Inspector and Instrumentman, Constr. Dept., Pennsylvania R. R.: Sept. to Dec. 1907 Instrumentman and (1) Jan. to Aug. 1908 Transitman, New York Central & Hudson River R. R.: Aug. to Oct. 1908 with Viele, Blackwell & Buck, Cons. Engrs., New York City: Dec. 1908 to April 1909 Asst. Engr. on valuation, New York, New Haven & Hartford R. R.: July 1909 to Oct. 1911 with Missouri Pacific Ry., until May 1910 as Asst. Engr., M. of W. Dept., in charge of reconstruction of fourteen bridges, piers and foundations, grade reduction and bridge filling work on Belmont Dist., Missouri Div.; from May to Nov. 1910 Res. Engr., M. of W. Dept., in charge of reconstruction of Topeka Dist. (135 miles), Central Kansas Div., including ballasting, bridge strengthening and realignment of track; after Nov. 1910 Roadmaster in charge Sub-Div. B (101 miles main track), White River Div.: March 1912 to June 1913 Supt. of Constr., Gen. Contr. & Eng. Co., constructed and rebuilt docks and piers for Lehigh Valley R. R., Baltimore & Ohio R. R., and New

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York Dock Co.: June 1913 to Jan. 1914 Asst. Supervisor and Supervisor, L. & N. J. Div., L. V. R. R.: Jan. to Aug. 1914 associated with H. W. Edwards, Cons. R. R. Engr., New York City: Aug. 1914 to Jan. 1916 in charge of track installation for contractors, Manhattan-Elev. Improvement, Interborough Rapid Transit Co., New York, laying of 15 miles third track and relocation of 6 miles operated tracks (Terry & Tench Co., Contrs.): Feb. to July 1916 Asst. to Chf. Engr., proposed Washington-Newport News Short Line R. R., on estimates, studies, reports, etc.: July 1916 to July 1917 with Public Service Comm., First Dist., on inspection and supervision of track installation, elevated and subway lines: July 1917 to date Pres., Gen. Contr. & Eng. Co. (Company designs and constructs piers, wharves, bulkheads, subaqueous construction, pile and masonry foundations, coal-handling plans, trestles and bridges, and railway structures for railroads, steamship lines, public utility companies, etc.). (Active practice 14.8 years: Res. Ch. 9.9: Design 13.5). Refers to H. W. Edwards, G. T. Kuntz, R. Y. Patterson, H. E. Van Ness, A. M. Zabriskie.

STEPATH, CHARLES UNDERHILL, Assoc. M. Am. Soc. C. E.—69 East Alvord St., Springfield, Mass.—(elected Junior Feb. 3, 1903; Assoc. M. July 10, 1907.) (Age 46.)
 479 Born New York City.) (B. S., 1898, M. S., 1901, and C. E., 1902, Manhattan Coll.)—1898 to 1899 (1 year) Topographical Draftsman and Computer, Board of Public Improvements, New York City: 1899 to 1900 (1 year) Rodman and Recorder, New York State Canals: 1900 to 1902 (2 years) Rodman, New York Rapid Transit Comm.: 1902 to 1906 with Highway Dept., Borough of the Bronx, New York City, 2 years as Computer and Estimator, and 2 years Asst. Engr. in charge of construction on Grand Boulevard and Concourse, New York City: 1906 to 1913 (7 years) Sec. Engr., Board of Water Supply, New York City, in charge of construction of 4 miles of Catskill Aqueduct, in Catskill Mountains, N. Y.: 1913 to 1915 (2 years) Engr. and Supt., Snare & Triest Co., in charge of construction of subway work in Long Island City: 1915 to 1916 (1 year) Asst. Supt., Intercontinental Constr. Co., in charge of construction of part of Company's reconstruction of Brighton Beach Subway in Brooklyn: 1916 to 1917 (1 year) Supt. and Engr., Phoenix Constr. Co. of New York, in charge of construction of coal dock and storage yard at Rossville, Staten Island: 1917 to 1919 (2 years) Civ. Engr., Westinghouse, Church, Kerr & Co., New York City, in charge of construction of National Carbide Co.'s plant at Ivanhoe, Va.: 1919 to date (4 years) Advisory Engr., Portland Cement Association. (Active practice 25 years: Res. Ch. 19: Design 12). Refers to J. A. Briggs, J. P. Hogan, J. H. Myers, R. Ridgway, J. W. Smith, B. H. Wait, L. White.

URQUHART, LEONARD CHURCH, Assoc. M. Am. Soc. C. E.—203 Wyckoff Ave., Ithaca, N. Y.—(elected March 12, 1918.) (Age 36. Born Cleveland, Ohio.) (C. E., Cornell Univ., 1909.)—June to Sept. of 1906 and June to Sept. 1907 U. S. Inspector in charge of dredge on harbor improvement, Sandusky and Cleveland, Ohio: Aug. 1909 to Jan. 1910
 (3) Inspector and Draftsman, Geo. S. Rider & Co., Cons. Engrs., Cleveland, Inspector on large mill building, design of coal bunkers for Peerless Automobile Co.: Jan. 1910 to Oct. 1911 and June to Sept. 1912 Draftsman, Grade Elimination Dept., New York, Chicago & St. Louis R. R., Cleveland, design of retaining walls, reinforced concrete arches, three-hinged arches, plate girders and abutments: Oct. 1911 to May 1918 Instructor in Bridge Eng., Coll. of Civ. Eng., and May 1918 to date Asst. Prof. of Bridge Eng., Cornell Univ., Ithaca, N. Y.; since 1914 has had charge of all courses in concrete construction; revised elementary course and laid out three new courses; taught courses in steel construction, revising subject matter and method of teaching steel buildings in 1917; since June 1922 in charge of Dept. of Bridge Eng.: also, Aug. 1914 to Feb. 1915 Asst. to Engr. in charge of power plant construction for Ithaca Traction Corporation, redesign of parts of structure, and completion of design; June to Sept. 1916 Bridge Designer, New York State Barge Canal, Albany, N. Y., design of two long-span highway bridges and part of a movable dam; Oct. 1916 to May 1918 Bridge and Valuation Engr., C. N. Y. S. R. R. Co., Ithaca, locating and estimating construction for 2 miles of new line for connection with the D. L. & W. R. R., design of structures, preparation of valuation material; Aug. and Sept. 1917 inspection and determination of safe loads for all bridges in Burlington County, N. J.; May 1918 to March 1919 with U. S. Army, training camp at Camp Mead and Camp Lee; July 1918 commissioned 2d Lieut., training troops at Camp Humphreys (until Oct.); after Oct. 1918 Topographical Officer, 215th Engrs. at Camp Logan, Tex. (Active practice 13.7 years: Res. Ch. 8.6; Design 4.8). Refers to F. A. Barnes, E. E. Haskell, H. S. Jacoby, H. N. Ogden, F. J. Seery.

FOR TRANSFER

FROM THE GRADE OF JUNIOR

COE, EDWARD HAROLD, JUN. AM. Soc. C. E.—1411 East 3d St., Duluth, Minn.—(elected Oct. 11, 1920.) (Age 26. Born Duluth, Minn.) (B. S. in Eng., Univ. of Minn., 1919.)—
 61 June to Sept. 1916 Chainman, Duluth, Missabe & Northern Ry.: June to Oct. 1917 Inspector, piling and concrete, Dock No. 6, same railroad: June to Sept. 1918 Inspector, concrete superstructure, and progress estimating, and June 1919 Inspector, foundation tests, Dock No. 6, same railroad: Dec. 1919 to Nov. 1920 Engr., Mesabi Iron Co., in charge of construction of railroad, highway, town, water, sewers, dams, etc., and in charge of surveying, topography, location, etc.: Dec. 1920 to July 1921 Computer, Valuation Dept., D. & I. R. Ry.: Aug. 1921 to date 1st Lieut., U. S. Army, Ft. Snelling, direct responsible charge of Post Drafting and Topog. School, construction of ranges, and of four 10-stall garages, Curling Rink, several skating rinks, ski jumps, etc., surveys, and Cons. Engr. to Quartermaster in construction work. (Active practice 3.2 years: Res. Ch. 2.5). Refers to H. C. Ash, W. A. Clark, E. K. Coe, A. S. Cutler, W. H. Hoyt, J. A. Lawrie, O. M. Leland, T. F. McGilvray, E. H. Marks, G. A. Taylor, W. H. Woodbury, W. G. Zimmerman.

GREENWOOD, HEMAN CHARLES, JUN. AM. Soc. C. E.—Caixa Postal 2026, Rio de Janeiro, Brazil—(elected June 1, 1920.) (Age 31. Born Seneca, Kans.) (B. S., Univ. of Cal., 1917.)—June 1917 to June 1918 Hydr. Engr., Province of Hunan, China: June 1918 to June 1919 Hydr. Engr., Pelton Water Wheel Co., San Francisco: June 1919 to April 1922 Hydr. Engr. of Pelton Water Wheel Co. with General Electric, Rio de Janeiro: April 1922 to date Mgr., Hydr. Dept., M. Hilpert & Co., the Brazilian Licensees of Pelton Water Wheel Co., I. P. Morris Dept. of Wm. Cramp & Sons Ship & Engine Bldg. Co. and The American Hydr. Corporation. (Active practice 5.8 years: Res. Ch. 4.8: Design 1). Refers to W. A. Dobie, F. W. Gay, E. C. Hutchinson, C. Rabello, W. T. Webb.

LATHROP, HENRY MONROE, JUN. AM. Soc. C. E.—76 Gould Ave., Caldwell, N. J.—(elected June 3, 1915.) (Age 30. Born Monroe, Conn.) (Ph. B., Sheffield Sci. School, 1912.)—Sept. 1912 to May 1914 Draftsman, Lorain Steel Co., Johnstown, Pa., detailing special track material, and designing and computing car house and street intersection layouts for street railways: Sept. 1914 to May 1920 Transitman, Central R. R. of New Jersey, New York City, preparing general and detail plans and estimates for terminal improvements, including timber lighterage pier, concrete 2-car dumper coal pier with service yard, power house and conveying system, and rearrangement and extension of yards; working up governing data for railroad improvements, including grade-crossing elimination, engine terminals, water-front facilities, interlocking plants, yard expansion: May 1920 to date Asst. Engr., C. R. R. of N. J., Jersey City, N. J., office work in construction of new lines and development of property; statistical researches in connection with railroad associations, development of metropolitan district, requisites of automatic train control, etc.; track realignment and modification of terminal facilities as affected by grade separation. (Active practice 10.6 years: Res. Ch. 4.5: Design 8.8). Refers to A. H. Dakin, Jr., A. E. Owen, H. M. Pirnie, H. E. Van Ness, J. L. Vogel, J. J. Yates, A. M. Zabriskie.

NEINKEN, MORTIMER LOUIS, JUN. AM. Soc. C. E.—5420 Fifteenth Ave., Brooklyn, N. Y.—(elected Oct. 9, 1917.) (Age 26. Born Paterson, N. J.) (C. E., Columbia Univ., 1920.)—
 64 June to Sept. 1915 Tracer on subway work, Public Service Comm., New York State: June to Oct. 1916 part of time checking quantities on Barge Canal and remainder of time Transitman with surveying party, Office of State Engr. and Surveyor, New York State: Nov. 1916 to Feb. 1917 Asst. to Engr., Schuster Eng. Co. of New Jersey, on design of building for special floor system, also estimating on cost construction for buildings: March to Sept. 1917 in Eng. Dept., Concrete Steel Co., Philadelphia, Pa., design and estimates on buildings to accommodate special floor systems: Sept. 1917 to May 1919 2d Lieut., Engrs., U. S. Army, until Jan. 1918 in training camp and with 103d Engrs., then (few months) in Gas School and at the front; after April 1918 in command of administrative labor companies (civilian labor), in charge of road building, barracks buildings, etc.; became 1st Lieut. and finally Capt., A. S. C.: June 1919 to Dec. 1920 Mgr., New York office, D. & M. Patents Co. of Philadelphia, in charge of design and layout of buildings for reinforced concrete floor construction: Jan. to Dec. 1921 Pres., Neinken Constr. Co., concrete and reinforced concrete work on various buildings in New York City: Jan. 1922 to date Treas., Neinken-Mertz Constr. Co., Inc., Gen. Contrs.,

FOR TRANSFER

on building construction in New York City. (Active practice 6.6 years: Res. Ch. 4.9: Design 2.2). Refers to W. Ginsberg, I. S. Grindrod, L. G. Mertz, Jr., L. S. Moisseiff, I. O. Shaffer.

O'REILLY, ANTHONY RAUEN, JUN. AM. Soc. C. E.—226 Clymer St., Reading, Pa.—(elected Dec. 6, 1920.) (Age 25. Born Reading, Pa.)—June 1915 to Jan. 1916 Transitman 485 and Rodman on Maryland State Highway: Jan. 1916 to Jan. 1917 Transitman, W. H. Dechant & Son, on street paving: Jan. 1917 to Aug. 1918 Civ. Engr., The Carpenter Steel Co., general mill construction: Jan. to Sept. 1919 Constr. Engr., Reading Steel Casting Co., in charge of Eng. Dept.: Sept. 1919 to March 1920 Constr. Engr. for H. J. Raudenbush, Gen. Contr., in charge of construction: March 1920 to date Civ. Engr., Bureau of Water, Reading, Pa., in charge of design and construction of improvements to Malden Creek Pumping Station. (Active practice 7.5 years: Res. Ch. 4.2: Design 3.2). Refers to R. A. Boehringer, F. Ehrsam, E. L. Nuebling, E. B. Ulrich, P. Voorhees, G. F. Wieghardt.

SCHONBERG, JACKSON ROY, JUN. AM. Soc. C. E.—Development Dept., Standard Oil Co. of New Jersey, Elizabeth, N. J.—(elected Nov. 9, 1920.) (Age 25. Born New York City.)—Studied Civ. Eng. at Columbia Univ.; also took Chemical course at Coll. of City of New York: Feb. 1916 to date with Standard Oil Co. of New Jersey, until Feb. 1919 (1) as Experimental Engr. at Bayonne Plant, on design, construction and operation of alternating regulating transformers of type used in electric furnace operation (capacity 350 k. v. a.), 1 000-kw. switchboards, 1 000-kw. electric furnaces, various pebble mills and calcining furnaces, retorts, condensers, etc., for manufacture of chemicals, apparatus for research work, and erection of ore-crushing and pulverizing equipment; Feb. 1919 to Feb. 1921 Constr. Engr. at Bayway Plant, Elizabeth, N. J., designed, constructed and operated semi-commercial chemical plant (cost approx. \$100 000), consisting of office, laboratory and plant buildings; also various types of special apparatus to manufacture chemicals; since March 1921 Development Engr., Development Dept., Elizabeth, designed and constructed various types of equipment for distillation of oils, such as stills, condensers, retorts, etc., for atmospheric, vacuum and pressure operation, also equipment for scrubbing of gases, pressing of wax, destructive distillation of various substances, manufacture of alcohol (cost from \$5 000 to \$250 000). (Active practice 7 years: Res. Ch. 4: Design 4). Refers to H. S. Crocker, C. M. Franklin, C. H. Gaedcke, C. W. Hunt, J. S. Langthorn, J. Verner, T. W. Waddington.

WEBER, CHARLES MARIA, JUN. AM. Soc. C. E.—Care, American Express Co., Paris, France—(elected March 2, 1915.) (Age 29. Born San Jose, Cal.) (B. S. in C. E., 487 St. Mary's Coll., 1913; C. E., 1914, and M. C. E., 1915, Cornell Univ.)—Feb. 1916 to March 1917 with Standard Oil Co. of California on exhaustive cost investigation in (1) motor truck transportation; miscellaneous engineering problems: March 1917 to March 1918 management of lumber and logging concern, logging and rigging, road building and surveying, miscellaneous engineering problems: Feb. 1918 to July 1919 with U. S. N. R. F., after June 1918 as Landsman for Machinist's Mate (Aviation); Pilot at Boston Tech. Ground School; flying at Miami and Pensacola; Ensign: March to April 1920 inspection and study of wood pulp plants on Pacific Coast, Oregon, Washington and British Columbia: May 1921 to Aug. 1922 with Turlock-Modesto Irrigation Dist., Don Pedro Dam, miscellaneous surveying construction crew; charge of testing laboratory, studies in strength and economies of mix, laborer on concrete chuting system studies involving improvements (future) for concrete chutes: Aug. 1922 to date ill. (Active practice 4.1 years: Res. Ch. 1.1). Refers to H. H. Hall, P. F. Jones, E. W. Schoder, C. S. Whitney, A. J. Wiley.

The Board of Direction will consider the applications in this list not less than thirty days after the date of its issue.

JOHN H. DUNLAP,
Secretary.